



*Talon Resources, Inc.*

Service, Quality and Accuracy

375 South Carbon Avenue A-10  
Suite 101  
Price, Utah 84501  
Phone: 435-637-8781  
435-637-5032 Ext 710/711

Cell: 801-650-1401  
801-650-1402  
Fax: 435-636-8603  
Email: talon@castlenet.com

November 1, 2001

Ms. Lisha Cordova  
State of Utah  
Division of Oil Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—SWD #5, Emery County, Utah  
101' FSL, 1108' FEL, Section 23, T17S, R8E, SLB&M.

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco), Talon Resources, Inc. respectfully submits the enclosed original of the *Application for Permit to Drill (APD)* for the above referenced well. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats and layouts of the proposed well site;

Exhibit "B" - Proposed location map with pipe, power, and road corridors;

Exhibit "C" - Drilling site layout;

Exhibit "D" - Drilling Program;

Exhibit "E" - Multi Point Surface Use Plan;

Exhibit "F" - Typical road cross-section;

Exhibit "G" - Typical BOP diagram;

Exhibit "H" - Typical wellhead manifold diagram.

**RECEIVED**

NOV 02 2001

DIVISION OF  
OIL, GAS AND MINING

**ORIGINAL**

Please accept this letter as Texaco Exploration and Production's written request for confidential treatment of all information contained in and pertaining to this application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact myself, or Mr. Ian Kephart at Texaco if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton

Environmental Manager / Project Coordinator

cc: Mr. Bryant Anderson, Emery County

Mr. Allen Davis, Texaco

Mr. Chuck Snure, Texaco

Mr. Bob Lamarre, Texaco

Mr. Ian Kephart, Texaco

Mr. Roger Johnson, Texaco

Mr. Ron Wirth, Texaco

Texaco Well File

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work:

DRILL ☒DEEPEN ☐

B. Type of Well:

OIL ☐GAS ☐

Water Disposal

SINGLE ZONE ☐MULTIPLE ZONE ☒

2. Name of Operator:

Texaco Exploration and Production, Inc.

3. Address and Telephone Number:

3300 North Butler, Suite 100, Farmington, NM 87401; 505-325-4397

4. Location of Well (Footages)

At Surface:

101' FSL, 1108' FEL

At Proposed Producing Zone:

4352' 400' N  
501' 174' E

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Farm or Lease Name:

SWD

9. Well Number:

#5

10. Field or Pool, or Wildcat:

Wildcat

11. Qtr/Qtr, Section, Township, Range, Meridian:

SE/4 SE/4, Section 23,  
T17S, R8E, SLB&M

14. Distance in miles and direction from nearest town or post office:

0.9 miles southwest of Huntington, Utah

12. County:

Emery

13. State:

Utah

15. Distance to nearest property or lease line (feet):

101'

16. Number of acres in lease:

36.46

17. Number of acres assigned to this well:

N/A

18. Distance to nearest well, drilling, completed, or applied for, or

None

19. Proposed Depth:

7895'

20. Rotary or cable tools:

Rotary

21. Elevations (show whether DF, RT, GR, etc.):

5893' GR

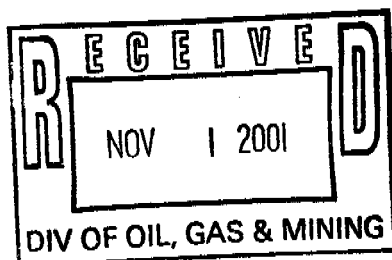
22. Approximate date work will start:

November 2001

### 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48	300'	375 sacks Class G cement + 2% CaCl <sub>2</sub> + 0.25 pps cellophane
12-1/4"	9-5/8" K-55 LT&C	36	3000'	175 sacks Lead, 150 sacks Tail, 10-1 RFC
8-3/4"	7" N-80 LT&C	23	7895'	775 sacks 50/50 POZ + 1% B71 (fluid loss)
				225 sacks Class G cement + 10% D-44 (salt) + 8% D-20 (gel extender)

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.



Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 11-28-01  
By: [Signature]

24.

Name &amp; Signature:

Ian Kephart [Signature]

Title:

Production Engineer

Date:

10/31/01

(This space for state use only)

API Number Assigned:

43-015-30510

Approval:

ORIGINAL

CONFIDENTIAL

# Range 8 East

(S89°40'W - 5315.64')

Township 17 South

(N00°29'W - 2660.46')

(N00°32'W - 2656.50')

(N00°26'W - 2658.48')

(N01°01'10"W - 2665.38')  
(N00°43'W - 2665.08')

23

SWD #5  
Elevation 5893.3'  
UTM  
N - 4352422  
E - 501162

1107.62'

100.61'

(N89°44'E - 5322.24')

N89°24'27"E - 1330.64'

N89°24'50"E - 1329.78'

## Legend

- Drill Hole Location
- ⊙ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Calculated Corner
- ( ) GLO
- GPS Measured

ORIGINAL

## NOTES:

1. UTM and Latitude / Longitude Coordinates are derived using a GPS and are shown in NAD 27 Datum.

Lat/Long  
39°19'23"N  
110°59'12"W

## Location:

The well location was determined using a Trimble 4700 survey grade unit.

## Basis of Bearing:

The Basis of Bearing is GPS Measured.

## GLO Bearing:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

## Basis of Elevation:

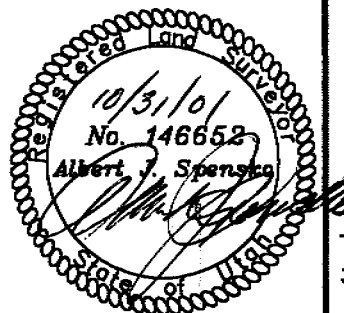
Basis of Elevation of 6137' being at the Northwest Section corner of Section 11, Township 17 South, Range 8 East, Salt Lake Base & Meridian, as shown on the Red Point Quadrangle 7.5 Minute Series Map.

## Description of Location:

Proposed Drill Hole located in the SE 1/4, SE 1/4 of Section 23; being 100.61' North and 1107.62' West from the Southeast Corner of Section 23, T17S., R8E., Salt Lake Base and Meridian.

## Surveyor's Certificate:

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



**Talon Resources, Inc.**  
375 South Carbon Avenue, Suite 101  
Price, Utah 84501  
Ph: 435-637-8781  
Fax: 435-636-8603



TEXACO E & P

SWD #5

Section 23, T17S., R8E., S.L.B.&M.  
Emery County, Utah

Drawn by:  
J. STANSFIELD

Drawing No.

A-1

Checked by:  
L.W.J. / A.J.S.

Date:  
10/31/01

Scale:  
1" = 1000'

Job No.  
450

Sheet 1 of 4

## GRAPHIC SCALE

0 500' 1000'  
( IN FEET )  
1 inch = 1000 ft.



Operator: Texaco Exploration and Production, Inc.  
Lease and Well Name: SWD #5  
Location: SE/SE, Section 23, T17S, R8E

## **9 POINT DRILLING PLAN**

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

### **1. Surface Formation and Estimated Formation Tops:**

<u>Formation</u>	<u>Depth</u>
Bluegate Shale	100'
Top of "A" coal	1785'
Navajo	6660'
Total Depth	7895'

### **2. Estimated Depths at Which Oil, Gas, or other Mineral Bearing Zones are Expected to be Encountered:**

Expected oil zones:	None
Expected gas zones:	Ferron Coals at 1785'-2070'
Expected water zones:	Ferron Coals at 1785'-2070'
Expected water zones:	Navajo at 6660'
Expected mineral zones:	None

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to the State. All oil and gas shows will be tested to determine commercial potential.

### **3. Pressure Control Equipment:**

The proposed pressure control equipment consists of the following:

- a. Rotating head
- b. 3000 psi WP hydraulic-operated double ram

(See attached schematic drawings of the BOP and choke manifold)

BOP systems shall be consistent with API RP53 AND Onshore Oil and Gas Order No.2. Pressure tests for the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing shoe and will

**CONFIDENTIAL**

remain in use until the well is completed or abandoned. BOP equipment will be inspected and operated daily to ensure good mechanical working order. The ram preventers shall be inspected and operated each trip (no more than once a day is required).

Pressure tests will be performed on all related well control equipment. Ram type preventers and associated equipment shall be tested using a test plug to full working pressure. The test pressure shall be maintained for at least 10 minutes with no bleed off. The valve on the casing head below the test plug shall be open during the BOP test.

As a minimum, the above pressure test shall be performed when:

- a. The stack is initially installed (prior to drilling out of the surface casing),
- b. Any seal subject to pressure is broken,
- c. Following repairs to any part of the BOP system, and
- d. At 30 day intervals.

All valves shall be tested from the working pressure side with all downstream valves open.

A BOP pit level drill shall be conducted weekly for each drilling crew.

All of the above described tests and drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be available upon request.

Drill string safety valves to fit all tools in the drill string shall be maintained on the rig floor while drilling operations are in progress.

#### 4. Casing Program and Auxiliary Equipment:

- a. The following surface casing will be set at 300' in 17 1/2" hole: 13 3/8" 48 lb/ft H-40 ST&C.
- b. The following intermediate casing will be set at 3000' in 12 1/4" hole: 9 5/8" 36 lb/ft K-55 LT&C.
- c. The following production casing will be set at 7895' (TD) through the Moenkopi formation in 8 3/4" hole: 7" 23 lb/ft N-80 LT&C.

#### 5. Cement Program:

<u>Surface:</u>	<u>Type and Amount</u>
0' to 300'	375 sks Class G + 2% CaCl <sub>2</sub> + 1/4#/sk cellophane flakes
	Yield: 1.15 ft <sup>3</sup> /sk Weight: 15.8 ppg

<u>Intermediate:</u>	<u>Type and Amount</u>
600' to 0'	175 sks RFC 10-1 Yield: 1.61 ft <sup>3</sup> /sk Weight: 14.2 ppg
3000' to 2500'	150 sks RFC 10-1 Yield: 1.61 ft <sup>3</sup> /sk Weight: 14.2 ppg

<u>Production:</u>	<u>Type and Amount</u>
6500'-0'	775 sks 50/50 POZ Yield: 1.91 ft <sup>3</sup> /sk Weight: 12.5 ppg + 1% B71 (Fluid loss)
7895'-6500'	225 sks Class G Yield: 1.15 ft <sup>3</sup> /sk Weight: 15.8 ppg + 10% D44 (salt), 8% D20 (gel extender)

(The above volumes assume 50% excess over gauge hole)

6. **Mud Program:**

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Weight</u>	<u>Viscosity</u>
0'-300'	FW/Gel	8.4-8.7	N/A
300'-3000'	Air	N/A	N/A
3000'-TD	LSND	8.8-9.4	N/A

The Blooie line will be approximately 100' in length and will extend in a straight line from below the rotating head as shown in the attached Rig Layout schematic. An automatic spark-type igniter will be affixed to the end of the blooie line and set to provide a continuous spark to ignite and burn any produced hydrocarbon gas.

7. **Coring, Logging and Testing Program:**

- No drill stem test is planned.
- No coring is planned
- The logging will consist of a GR-CNL-LDT from 2000' to TD, and an AITH (array induction) log from base of intermediate casing to TD.

8. **Abnormal Conditions, Bottom-Hole Pressures and Potential Hazards:**

- The maximum anticipated bottom-hole pressure gradient in any of the zones is 8.33 ppg (fresh water gradient).
- Some lost circulation is a potential hazard in the Ferron coal section.
- No abnormal temperatures are anticipated.
- No H<sub>2</sub>S is anticipated.

9. Lessee's Operator's Representatives:

Permit Matters

Texaco Exploration and Production, Inc.

Ron Wirth

Production Supervisor

P.O. Box 618

Orangeville, UT 84537

(435) 748-5395 ext. 1

Drilling and Completion Matters

Texaco Exploration and Production, Inc.

Dave Wojahn

Drilling Engineer

4601 DTC Boulevard

(303) 793-4918

**EXHIBIT "E"**  
**Multipoint Surface Use Plan**

Attached to UDOGM Form 3  
Texaco Exploration and Production, Inc.  
SWD #5  
SE/4 SE/4, Sec. 23, T17S, R8E, SLB & M  
101' FSL, 1108' FEL  
Emery County, Utah

**1. Existing Roads**

- a. The proposed access road will encroach the West Flat Road (County Road #308) in which verbal approval to construct and encroach has been received but a final written approval is pending from the Emery County Road Department (see Exhibit "B").
- b. We do not plan to change, alter or improve upon any other existing state or county roads. Existing roads will be maintained in the same or better condition.

**2. Planned Access**

- a. Approximately 900' of new access is required (see Exhibit "B").
- b. Maximum Width: 20' travel surface with a 27' base.
- c. Maximum grade: 10%.
- c. Turnouts: None.
- d. Drainage design: approximately 2 – 18" culverts may be required. Water will be diverted away from the planned access as necessary and practical.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

### **3. Location of Existing Wells**

- a. There are two proposed production wells and no existing production wells within a one mile radius of the proposed well site (see Exhibit "B").

### **4. Location of Existing and/or Proposed Facilities**

- a. Once the well is drilled, installation of disposal facilities will follow.
- b. Buried powerlines and feed lines will follow the proposed access road and connect to the SWD #4 well site (see Exhibit "B").
- c. Rehabilitation of all pad areas not used for disposal facilities will be made in accordance with landowner stipulations.

### **5. Location and Type of Water Supply**

- a. Water to be used for drilling will be obtained from a local water source (probably North Emery Water Users Association, a local source of municipal water).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

### **6. Source of Construction Materials**

- a. All necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

## **7. Methods for handling waste disposal**

- a. The 10' deep reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit and will be lined. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or pad location
- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

## **8. Ancillary Facilities**

- a. We anticipate no need for ancillary facilities with the exception of one trailer to be located on the drill site.

## **9. Wellsite Layout**

- a. Available topsoil will be removed from the location and stockpiled. The location of mud tanks, reserve and bermed pits, and soil stockpiles will be located as shown on Exhibit "C".
- b. A blooie pit will be located 100' from the drill hole. A line will be placed on the surface from the center hole to the bermed pit. The bermed pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Exhibit "B".
- d. Natural runoff will be diverted around the well pad.

## **10. Plans for Restoration of Surface**

- a. All surface areas not required for disposal operations will be graded to as near original condition as possible and recontoured to minimize possible erosion.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- d. Any oil accumulation on the pit will be removed or overhead flagged as dictated by the existing conditions.
- e. Once the well is drilled and an approved UIC permit has been received the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

## **11. Surface Ownership**

- a. The wellsite will be constructed on lands presently owned by the Lynn C. Sitterud, 40 South 400 West, Huntington, Utah 84526; 435-687-9341. Texaco is presently negotiating the purchase of the land from Lynn C. Sitterud. The operator shall contact the landowner and the Division of Oil, Gas and Mining 48 hours prior to beginning construction activities.

## **12. Other Information:**

- a. The primary surface use is wildlife habitat. The nearest dwelling is approximately 1,600' northwest. Nearest live water is Huntington Canal approximately 275' northeast.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed, and piled downhill from the topsoil stockpile location.
- c. The backslope and foreslope will be constructed no steeper than 4:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be at the well site during construction and drilling operations.
- f. There will be no deviation from the proposed construction, drilling, and/or workover program without prior approval from the Division of Oil, Gas & Mining.
- g. During the completion of the well Texaco Exploration and Production, Inc. will file an application for Underground Injection Control Permit.



13. **Company Representatives**

Ian Kephart  
Texaco Exploration and Production, Inc.  
3300 North Butler Suite 100  
Farmington, New Mexico 87401  
(505)325-4397

Ron D. Wirth  
Texaco Exploration and Production, Inc.  
P.O. Box 618  
Orangeville, Utah 84537  
(435) 748-5395

**Mail Approved A.P.D. To:**

Company Representatives

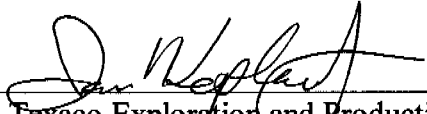
**Excavation Contractor**

Nielson Construction  
625 West 1300 North,  
North Loop Road  
Huntington, Utah 84528  
(435) 687-2494

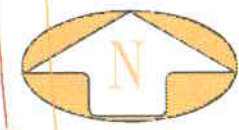
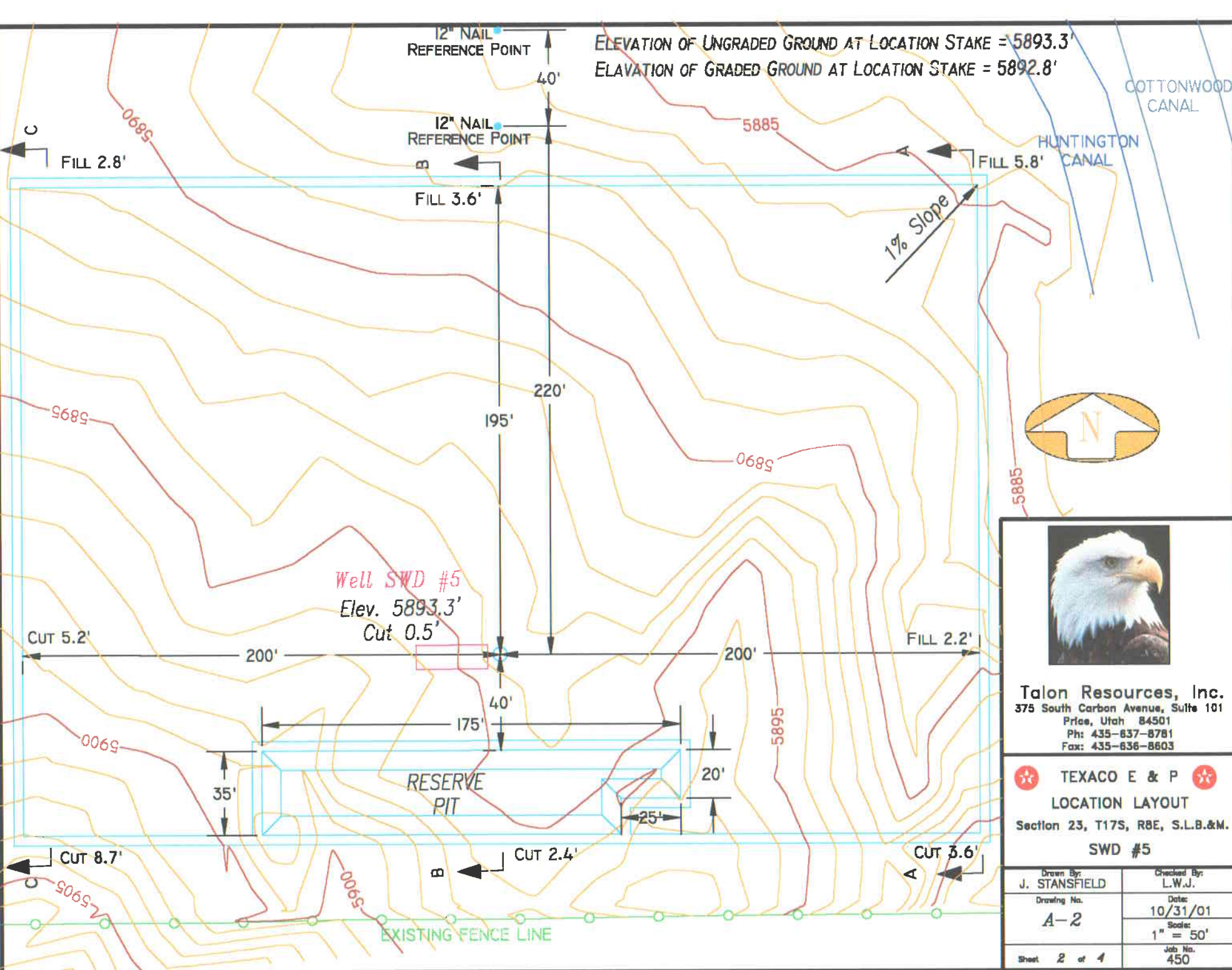
14. **Certification**

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Texaco Exploration and Production, Inc. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10/31/01  
Date

  
\_\_\_\_\_  
Texaco Exploration and Production, Inc.

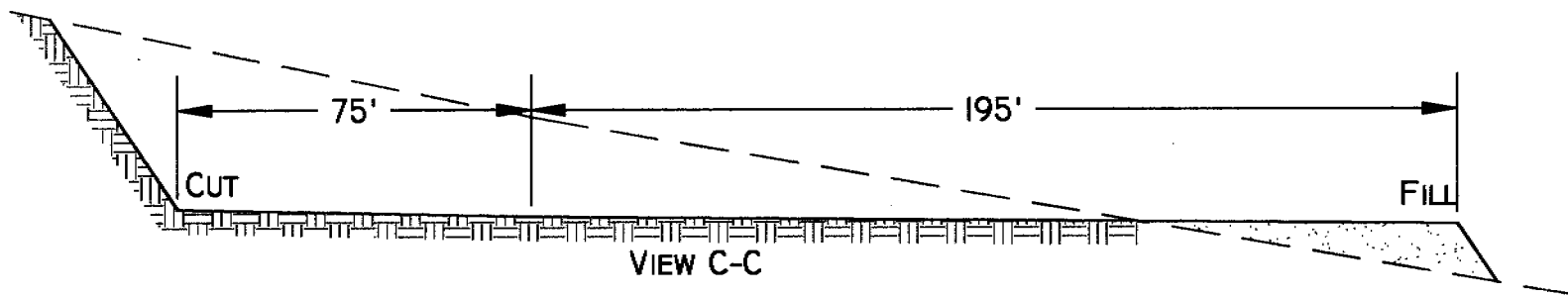
ORIGINAL



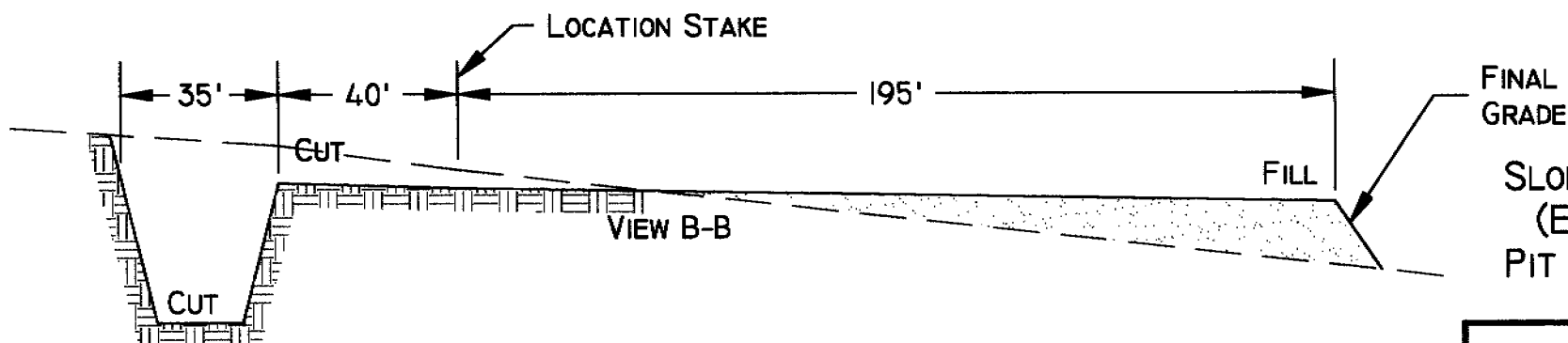
**Talon Resources, Inc.**  
375 South Carbon Avenue, Suite 101  
Price, Utah 84501  
Ph: 435-637-8781  
Fax: 435-636-8603

★ **TEXACO E & P** ★  
**LOCATION LAYOUT**  
Section 23, T17S, R8E, S.L.B.&M.  
**SWD #5**

Drawn By: <b>J. STANSFIELD</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>A-2</b>	Date: <b>10/31/01</b>
	Scale: <b>1" = 50'</b>
Sheet <b>2</b> of <b>4</b>	Job No. <b>450</b>

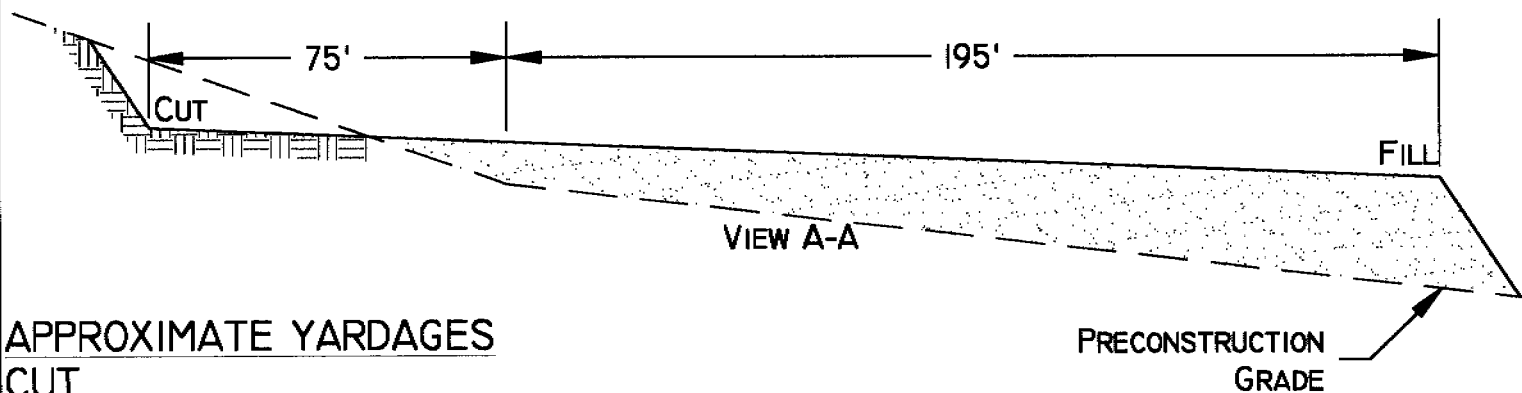


1"=10'  
X-Section  
Scale  
1"=40'



FINAL  
GRADE

SLOPE = 1 1/2 : 1  
(EXCEPT PIT)  
PIT SLOPE = 1 : 1



PRECONSTRUCTION  
GRADE

# APPROXIMATE YARDAGES

CUT

(6") TOPSOIL STRIPPING = 750 CU. YDS.

REMAINING LOCATION = 4,664 CU. YDS.

TOTAL CUT = 6,040 CU. YDS.

TOTAL FILL = 5,343 CU. YDS.



**Talon Resources, Inc.**  
375 South Carbon Avenue, Suite 101  
Price, Utah 84501  
Ph: 435-637-8781  
Fax: 435-636-8803



TEXACO E & P



TYPICAL CROSS SECTION

Section 23, T17S, R8E, S.L.B.&M.

SWD #5

Drawn By:  
J. STANSFIELD

Checked By:  
L.W.J.

Drawing No.

Date:

C-1

10/31/01

Scale:

1" = 40'

Sheet 3 of 4

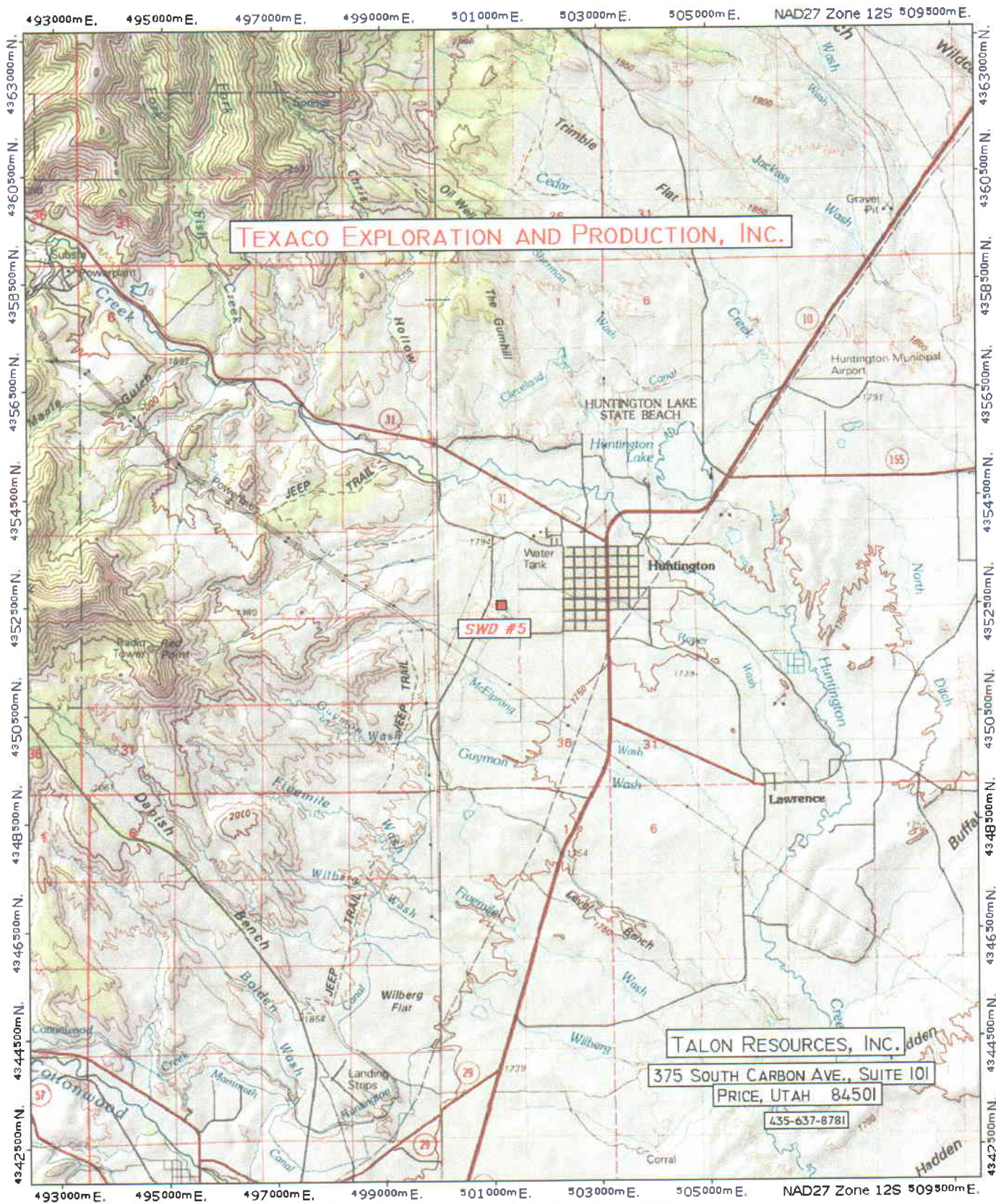
Job No.

450









TEXACO EXPLORATION AND PRODUCTION, INC.

SWD #5

TALON RESOURCES, INC.

375 SOUTH CARBON AVE., SUITE 101  
PRICE, UTAH 84501

435-637-8781

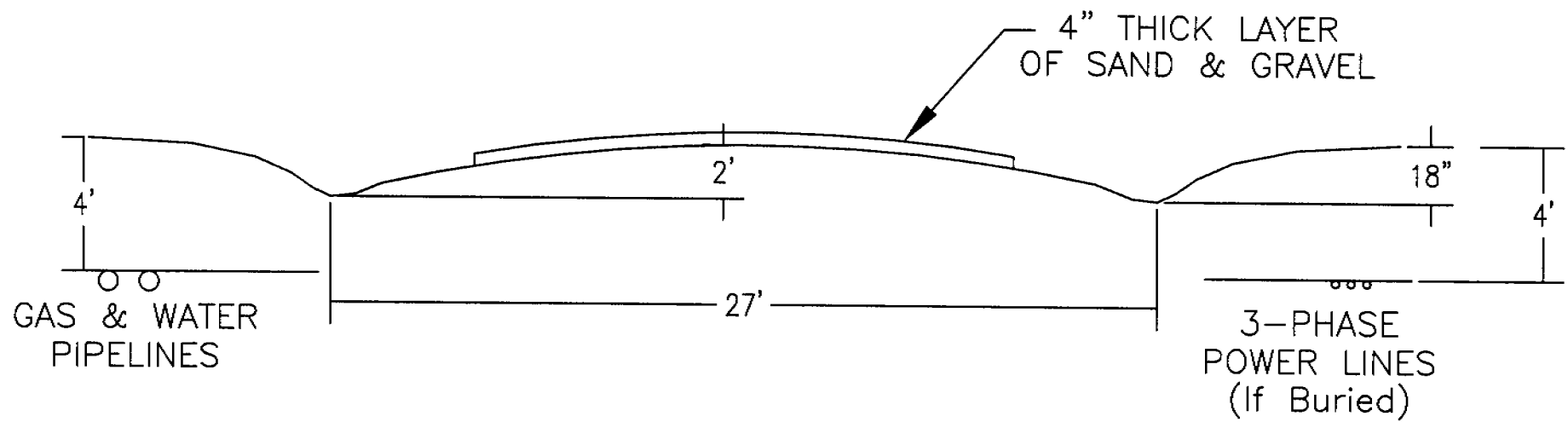
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles  
0 1 2 3 4 5 km

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A rig layout for the Patterson Rig is not available at this time and will be provided prior to the onsite being conducted.

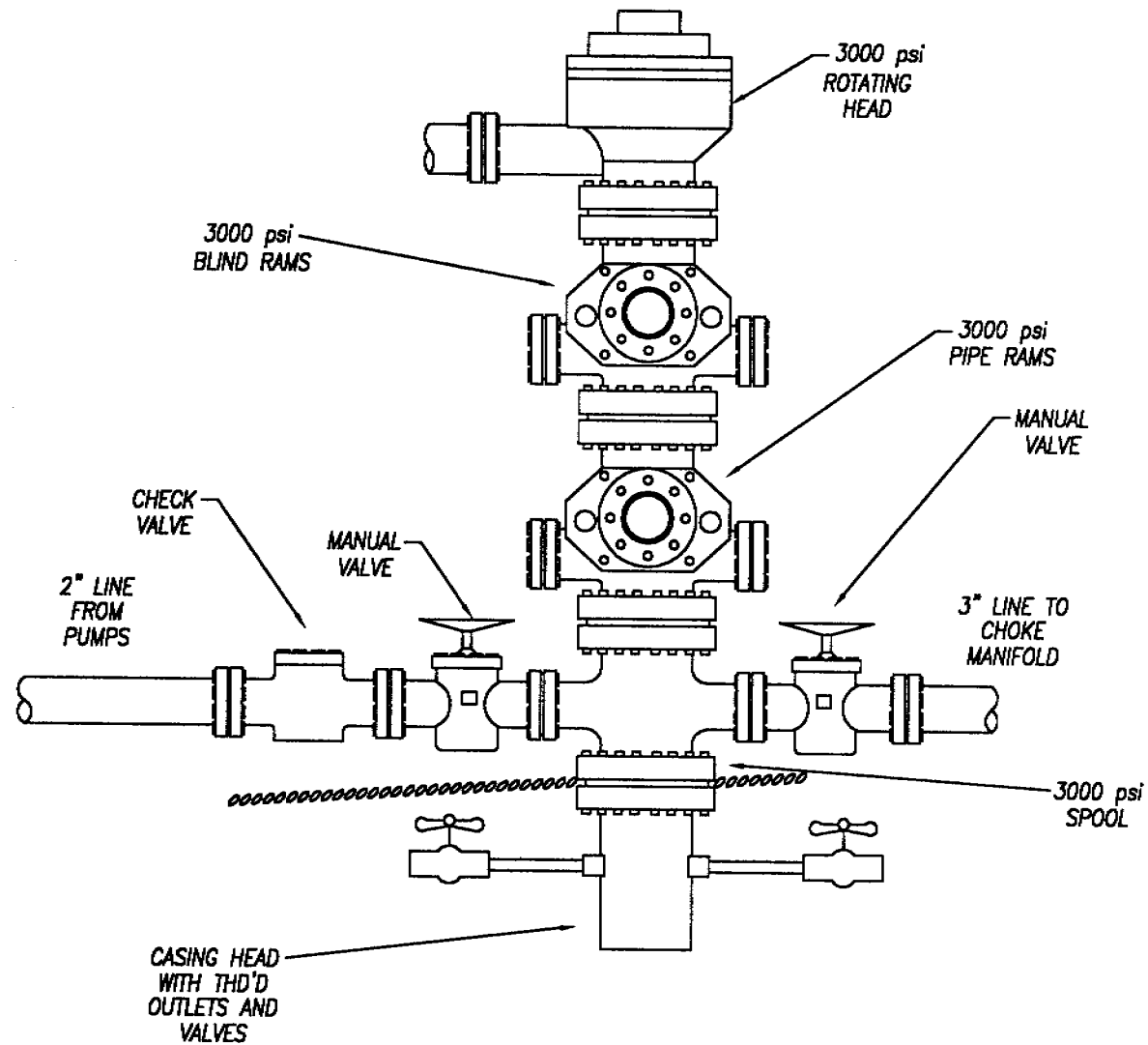
*EXHIBIT "C"*

# TYPICAL ROAD CROSS-SECTION



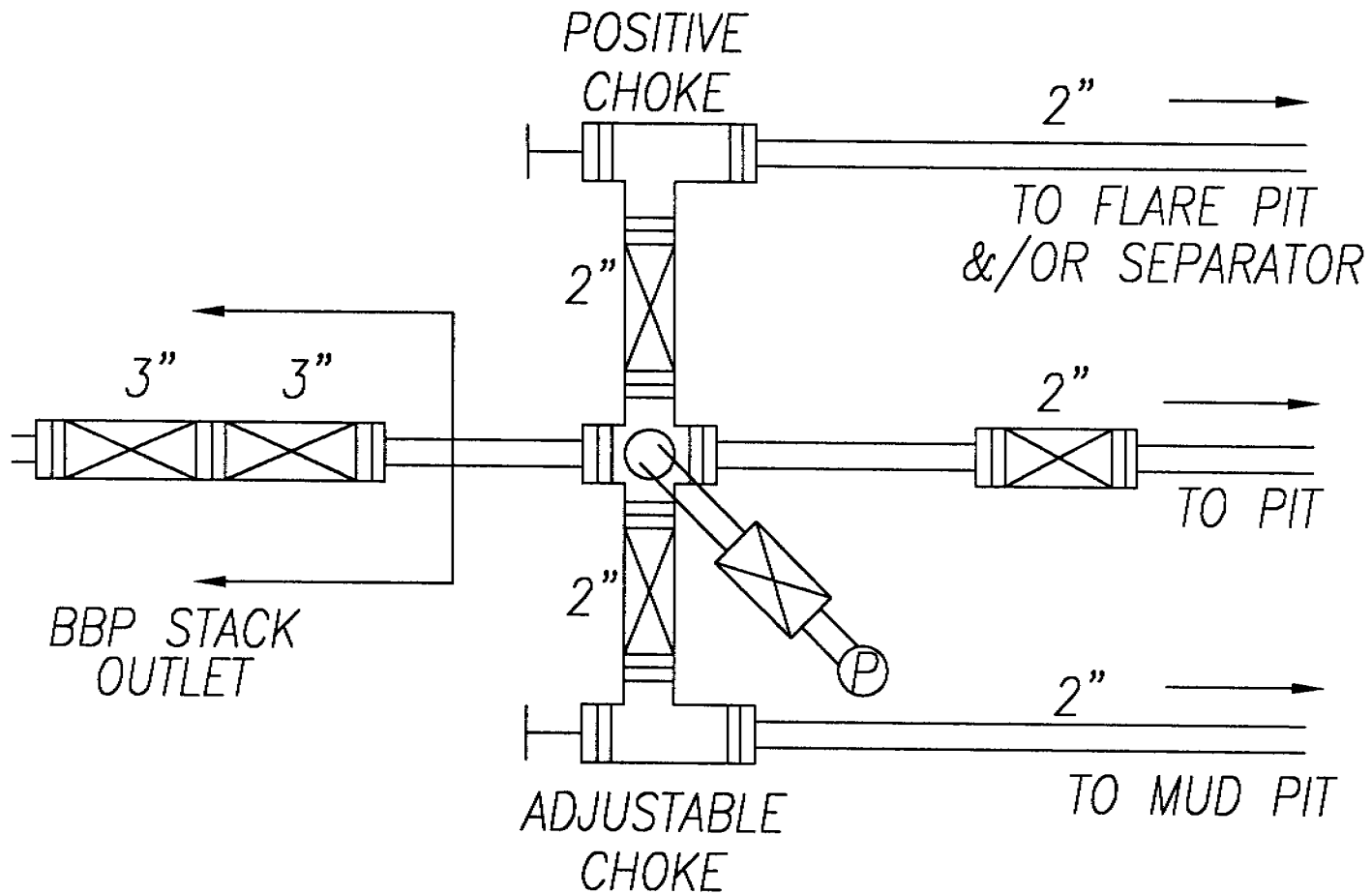
# BOP Equipment

3000psi WP





# CHOKE MANIFOLD



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/01/2001

API NO. ASSIGNED: 43-015-30510

WELL NAME: SWD 5

OPERATOR: TEXACO E & P INC ( N5700 )

CONTACT: DON HAMILTON, AGEN

PHONE NUMBER: 435-637-8781

**PROPOSED LOCATION:**

SESE 23 170S 080E

SURFACE: 0101 FSL 1108 FEL

BOTTOM: 0101 FSL 1108 FEL

EMERY

WILDCAT ( 1 )

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee \*Texaco eff. 11-19-01.

PROPOSED FORMATION: NAVA

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	11/28/01
Geology		
Surface		

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[4]  
(No. 6027949 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: Comments due 11-21-01 )  
☒ Fee Surf Agreement (Y/N) \*Texaco

**LOCATION AND SITING:**

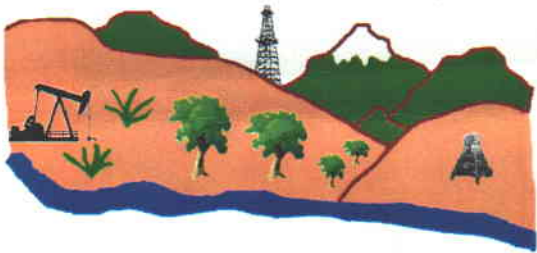
\_\_\_ R649-2-3. Unit \_\_\_  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_  
Eff Date: \_\_\_  
Siting: \_\_\_  
\_\_\_ R649-3-11. Directional Drill

**COMMENTS:**

Need presite. (11-18-01)  
Need "Ex. Loc" info. (11-28-01)

**STIPULATIONS:**

1-Cement shall be brought 100' above top of Ferron (approx. 1700') in Intermediate Casing String  
2-Statement of basis.



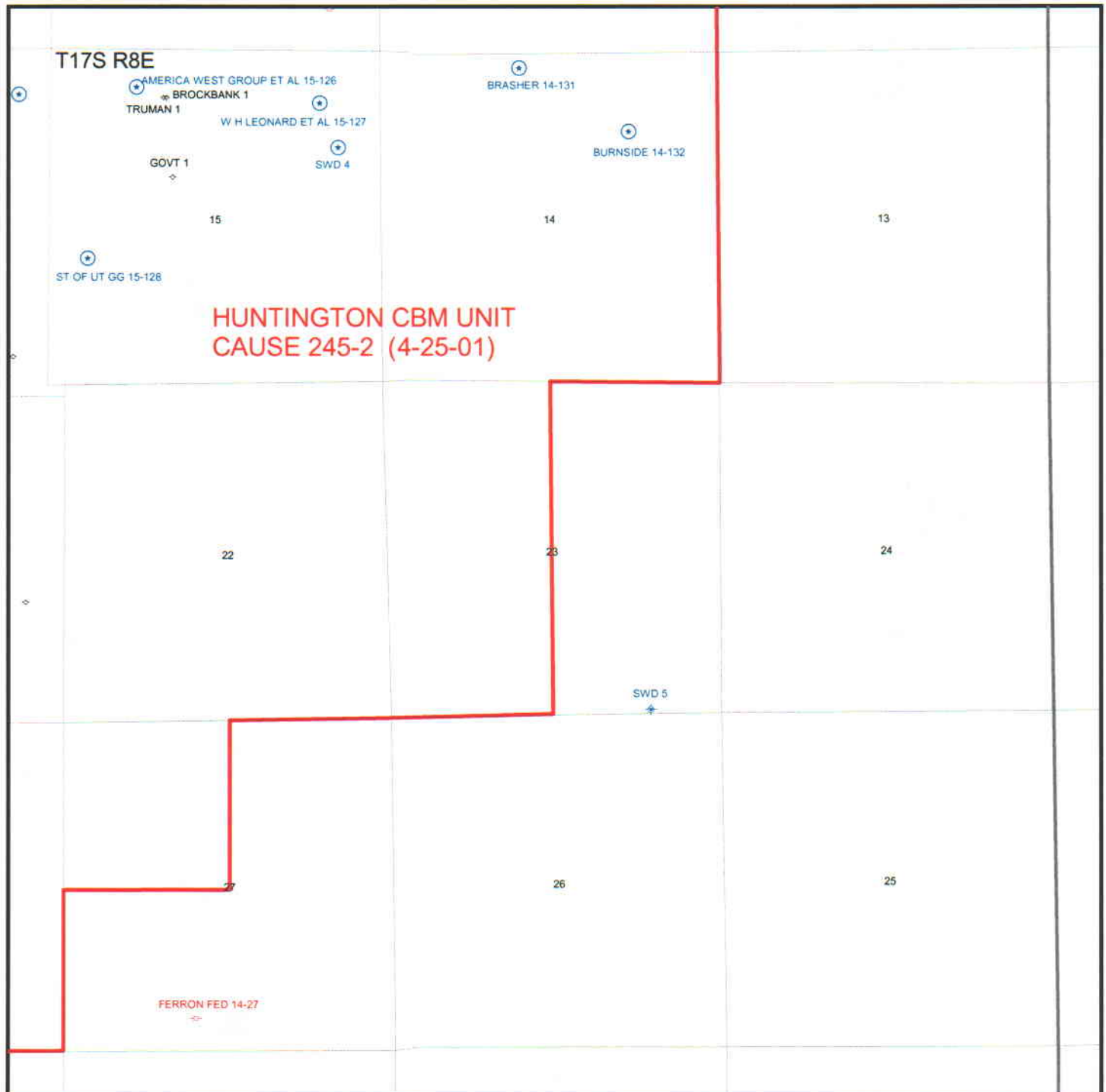
Utah Oil Gas and Mining

OPERATOR: TEXACO E&P INC (N5700)

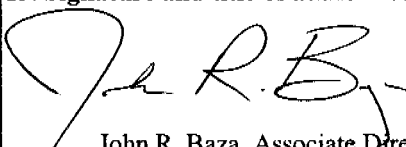
SEC. 23, T17S, R8E

FIELD: WILDCAT (001)

COUNTY: EMERY SPACING: R649-3-3/EX LOC



**STATE ACTIONS**  
**State Clearinghouse Coordinator**  
**116 State Capitol, SLC, UT 84114**  
**538-1535**

<b>1. Administering State Agency</b> Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	<b>2. State Application Identifier Number: (assigned by State Clearinghouse)</b>  <b>3. Approximate date project will start:</b> Upon Approval
<b>4. Areawide clearinghouse(s) receiving state action: (to be sent out by agency in block 1)</b>  Southeastern Utah Association of Governments	
<b>5. Type of action:</b> // Lease    /X/ Permit    // License    // Land Acquisition  // Land Sale    // Land Exchange    // Other _____	
<b>6. Title of proposed action:</b>  Application for Permit to Drill	
<b>7. Description:</b>  Texaco Exploration and Production, Inc. proposes to drill the SWD #5 well (wildcat) on Patented lease, Emery County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
<b>8. Land affected (site location map required) (indicate county)</b>  SE/4, SE/4, Section 23, Township 17 South, Range 8 East, Emery County, Utah	
<b>9. Has the local government(s) been contacted?</b> No	
<b>10. Possible significant impacts likely to occur:</b>  Degree of impact is based on the discovery of oil or gas in commercial quantities.	
<b>11. Name and phone of district representative from your agency near project site, if applicable:</b>  	
<b>12. For further information, contact:</b>  <b>Lisha Cordova</b> <b>Phone: (801) 538-5296</b>	<b>13. Signature and title of authorized officer</b>  John R. Baza, Associate Director <b>Date:</b> November 6, 2001

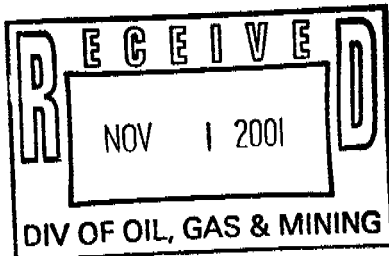
STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work: <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. Lease Designation and Serial Number: <b>Patented</b>	
B. Type of Well: <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>Water Disposal</b> <input checked="" type="checkbox"/> <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>		6. If Indian, Allottee or Tribe Name: <b>N/A</b>	
2. Name of Operator: <b>Texaco Exploration and Production, Inc.</b>		7. Unit Agreement Name: <b>N/A</b>	
3. Address and Telephone Number: <b>3300 North Butler, Suite 100, Farmington, NM 87401; 505-325-4397</b>		8. Farm or Lease Name: <b>SWD</b>	
4. Location of Well (Footages) At Surface: <b>101' FSL, 1108' FEL</b> At Proposed Producing Zone: <b>4352' 400' N 501' 174' E</b>		9. Well Number: <b>#5</b>	
14. Distance in miles and direction from nearest town or post office: <b>0.9 miles southwest of Huntington, Utah</b>		10. Field or Pool, or Wildcat: <b>Wildcat</b>	
15. Distance to nearest property or lease line (feet): <b>101'</b>		11. Qtr/Qtr, Section, Township, Range, Meridian: <b>SE/4 SE/4, Section 23, T17S, R8E, SLB&amp;M</b>	
16. Number of acres in lease: <b>36.46</b>		12. County: <b>Emery</b>	
17. Number of acres assigned to this well: <b>N/A</b>		13. State: <b>Utah</b>	
18. Distance to nearest well, drilling, completed, or applied for, or <b>None</b>		20. Rotary or cable tools: <b>Rotary</b>	
19. Proposed Depth: <b>7895'</b>		22. Approximate date work will start: <b>November 2001</b>	
21. Elevations (show whether DF, RT, GR, etc.): <b>5893' GR</b>			

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48	300'	375 sacks Class G cement + 2% CaCl <sub>2</sub> + 0.25 pps cellophane
12-1/4"	9-5/8" K-55 LT&C	36	3000'	175 sacks Lead, 150 sacks Tail, 10:1 RFC
8-3/4"	7" N-80 LT&C	23	7895'	775 sacks 50/50 POZ + 1% B71 (fluid loss)
				225 sacks Class G cement + 10% D-44 (salt) + 8% D-20 (gel extender)

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.\*



24. Name & Signature: Ian Kephart Title: Production Engineer Date: 10/31/01

(This space for state use only)

API Number Assigned: 43-015-30510

Approval:

ORIGINAL

CONFIDENTIAL

# Range 8 East

(S89°40'W - 5315.64')

Township 17 South

(N00°29'W - 2660.46')

(N00°32'W - 2656.50')

(N00°26'W - 2658.48')

(N01°01'10"W - 2665.38')  
(N00°43'W - 2665.08')

23

SWD #5  
Elevation 5893.3'  
UTM  
N - 4352422  
E - 501162

1107.62'

100.61'

(N89°44'E - 5322.24')

(N89°24'27"E - 1330.64')

(N89°24'50"E - 1329.78')

## Legend

- Drill Hole Location
- ⊙ Brass Cap (Found)
- Brass Cap (Searched for, but not found)
- △ Calculated Corner
- ( ) GLO
- GPS Measured

## NOTES:

1. UTM and Latitude / Longitude Coordinates are derived using a GPS and are shown in NAD 27 Datum.

ORIGINAL

Lat/Long  
39°19'23"N  
110°59'12"W

## Location:

The well location was determined using a Trimble 4700 survey grade unit.

## Basis of Bearing:

The Basis of Bearing is GPS Measured.

## GLO Bearing:

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office.

## Basis of Elevation:

Basis of Elevation of 6137' being at the Northwest Section corner of Section 11, Township 17 South, Range 8 East, Salt Lake Base & Meridian, as shown on the Red Point Quadrangle 7.5 Minute Series Map.

## Description of Location:

Proposed Drill Hole located in the SE 1/4, SE 1/4 of Section 23; being 100.61' North and 1107.62' West from the Southeast Corner of Section 23, T17S., R8E., Salt Lake Base and Meridian.

## Surveyor's Certificate:

I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.



**Talon Resources, Inc.**  
375 South Carbon Avenue, Suite 101  
Price, Utah 84501  
Ph: 435-637-8781  
Fax: 435-636-8603



TEXACO E & P

SWD #5

Section 23, T17S., R8E., S.L.B.&M.  
Emery County, Utah

Drawn By:  
J. STANSFIELD

Drawing No.  
A-1

Checked By:  
L.W.J. / A.J.S.

Date:  
10/31/01

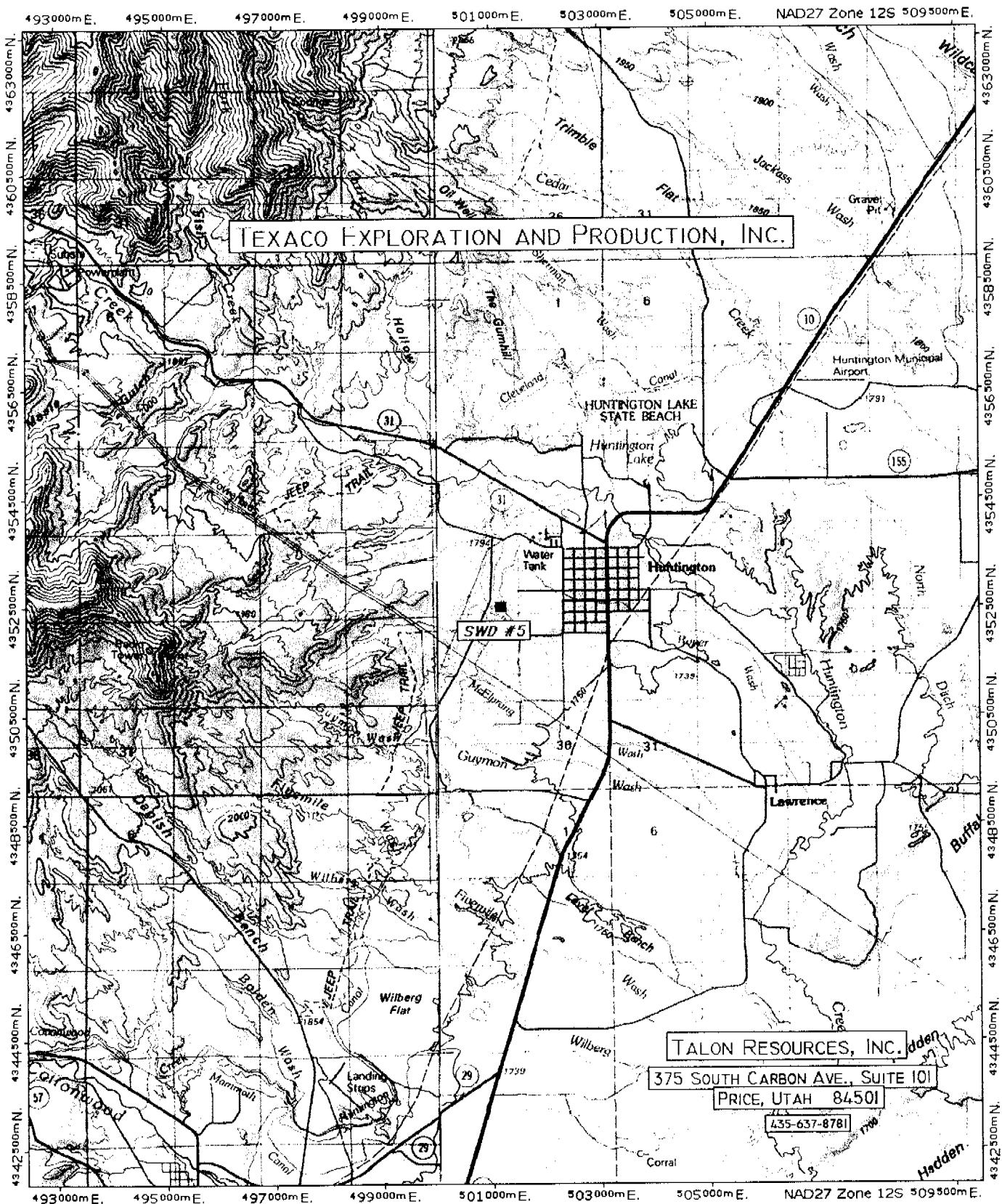
Scale:  
1" = 1000'

Job No.  
450

Sheet 1 of 4

## GRAPHIC SCALE

0 500' 1000'  
( IN FEET )  
1 inch = 1000 ft.



TEXACO EXPLORATION AND PRODUCTION, INC.

TALON RESOURCES, INC.

375 SOUTH CARBON AVE., SUITE 101  
PRICE, UTAH 84501

435-637-8781

TN\* MN  
13°

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles  
0 1 2 3 4 5 km

Printed from TOPOI ©2000 National Geographic Holdings (www.topo.com)

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

OPERATOR: Texaco  
WELL NAME & NUMBER: SWD# 5  
API NUMBER: \_\_\_\_\_  
LEASE: Fee FIELD/UNIT: \_\_\_\_\_  
LOCATION: 1/4, 1/4 SESE Sec: 23 TWP: 17S RNG: 8E 101' FSL 1108' FEL  
LEGAL WELL SITING: \_\_\_\_\_ F SEC. LINE; \_\_\_\_\_ F 1/4, 1/4 LINE; \_\_\_\_\_ F ANOTHER WELL.  
GPS COORD (UTM): X = 501162 E; Y = 4352422 N SURFACE OWNER: Lynn Sitterud.

**PARTICIPANTS**

M. Jones (DOGM), R. Wirth & I. Kephart (Texaco), B. Anderson (Emery County), D. Hamilton & A. Childs (Talon), L. Sitterud (Surface). SITLA and DWR was invited but did not attend.

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

Proposed location is ~1.25 miles SW of Huntington city center and ~1.58 miles south of Huntington Creek, a year round live water source. The location also lies West of the Huntington irrigation canal ~40'. The surrounding lands are SITLA and private. Topographically the area is flat with some rolling hills as you proceed to the south of the location.

**SURFACE USE PLAN**

CURRENT SURFACE USE: Grazing.  
PROPOSED SURFACE DISTURBANCE: 270' x 400' with a pit included.  
LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: None.  
LOCATION OF PRODUCTION FACILITIES AND PIPELINES: On location and along roadways.  
SOURCE OF CONSTRUCTION MATERIAL: Locally and transported in.  
ANCILLARY FACILITIES: On location if needed.

**WASTE MANAGEMENT PLAN:**

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Crude oil production is unlikely. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via a salt water disposal well. Used oil from drilling operations and support is hauled to a used oil recycler and reused.



## **ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: No floodplains present, however there is an irrigation canal ~40' east of the pad.

FLORA/FAUNA: Sagebrush, native and introduced grasses, cottonwood, willows, deer, small game, rodents, birds.

SOIL TYPE AND CHARACTERISTICS: clay loam

EROSION/SEDIMENTATION/STABILITY: Stable.

PALEONTOLOGICAL POTENTIAL: None Observed.

## **RESERVE PIT**

CHARACTERISTICS: Dugout Earthen Pit.

LINER REQUIREMENTS (Site Ranking Form attached): Liner required.

## **SURFACE RESTORATION/RECLAMATION PLAN**

As per surface use agreement.

SURFACE AGREEMENT: In negotiation.

CULTURAL RESOURCES/ARCHAEOLOGY: Will be completed and kept on file with the State.

## **OTHER OBSERVATIONS/COMMENTS**

An irrigation canal runs along the east side of this proposed location. The pad will be offset ~40' from the canal bank. According to Talon Resources this will be well out of any right of way the canal company has. I asked that the location be bermed around all four sides with a 2'-3' berm and that the slope of the location be changed from the NE corner to the NW corner of the pad to keep water from running off the location and directly into the canal. Texaco was in process of purchasing this land from L. Sitterud during the time of inspection.

## **ATTACHMENTS**

Photos of this location were taken and placed on file.

Mark L. Jones  
DOGM REPRESENTATIVE

11/13/2001 / 4:00 pm  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>20</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>0</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>6</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

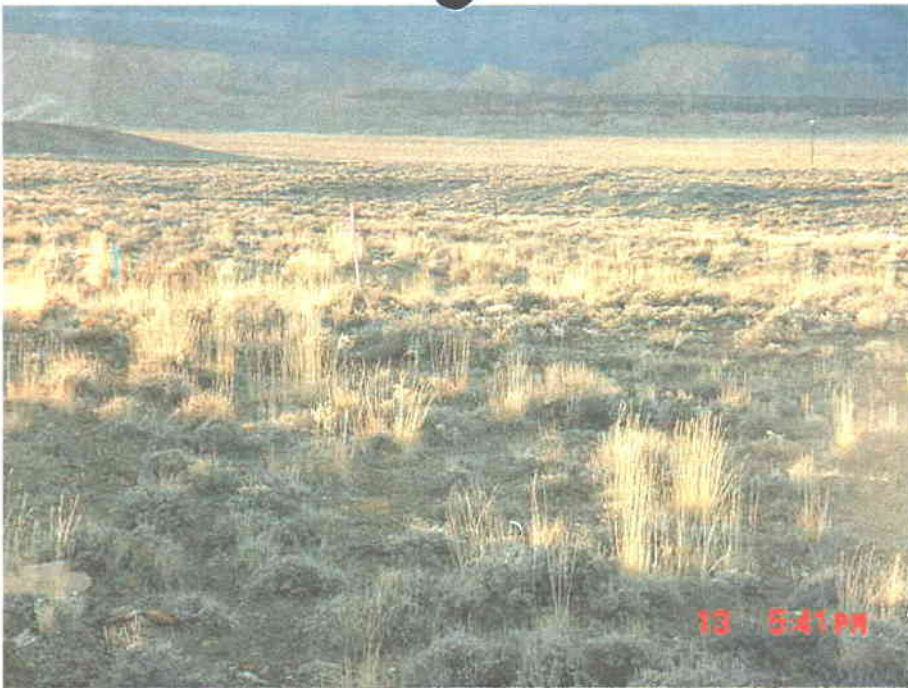
**Final Score**      36      (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.





**From:** Frances Bernards  
**To:** Cordova, Lisha  
**Date:** 11/15/01 5:42PM  
**Subject:** RDCC items 1346 and 1374

The Christensen #6-6 and SWD#5 wildcat wells may require a permit, known as an Approval Order, from the Utah Division of Air Quality if any compressor stations are operating at the site. A permit application, known as a Notice of Intent (NOI) should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, SLC, UT, 84116 for review according to the Utah Air Conservation Rule R307-400, Permits, Notice of Intent and Approval Order.



**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

OPERATOR: Texaco  
WELL NAME & NUMBER: SWD #5  
API NUMBER: 43-015-30510  
LOCATION: 1/4, 1/4 SESE Sec: 23 TWP: 17S RNG: 8E 101' FSL 1108 FEL

**Geology/Ground Water:**

A search of the Utah Division of Water Rights was made and a plot of the existing points of diversion was obtained showing 5 active points of diversion within one mile of this location. None of the active water rights are water wells and none of the water is being used for culinary purposes. 3 of the five points of diversion are underground drains, and two are for agricultural use. The proximity of the Huntington Canal to the location is a concern and all precautions will be taken by Texaco to properly notify the Canal Company of the well being proximate to the canal. A shallow water table in this area may exist, however with 2,000 feet of surface casing to be set and cemented to surface any USDW's will be protected. Extra precautions will need to be taken when building the reserve pit and a liner should be required. Soils in the area are quaternary alluvium and will consist of sand and clay derived from the rock layers of the Upper Member of Bluegate Shale and interbedded Emery Sandstone. In this area the formations will dip gently toward the west where they rise to form the Wasatch Plateau, and lie in an erosional valley of the Price River and Huntington River Drainages, as they flow around the San Rafael Swell to the East.

**Reviewer:** K. Michael Hebertson **Date:** 19-November-2001

**Surface:**

The location lies West of the Huntington irrigation canal ~40'. The location will be bermed around all four sides with a 2'-3' berm. The slope of the location be changed from the NE corner to the NW corner of the pad to take pad runoff and potential spills away from the canal. Attention should be paid to keeping runoff away from the pad and spills remaining on the pad due to the close proximity of the canal. Permits from SITLA had not yet been obtained for access into the location. SITLA and DWR were invited to the onsite but neither attended .

**Reviewer:** Mark L. Jones **Date:** November 19, 2001.

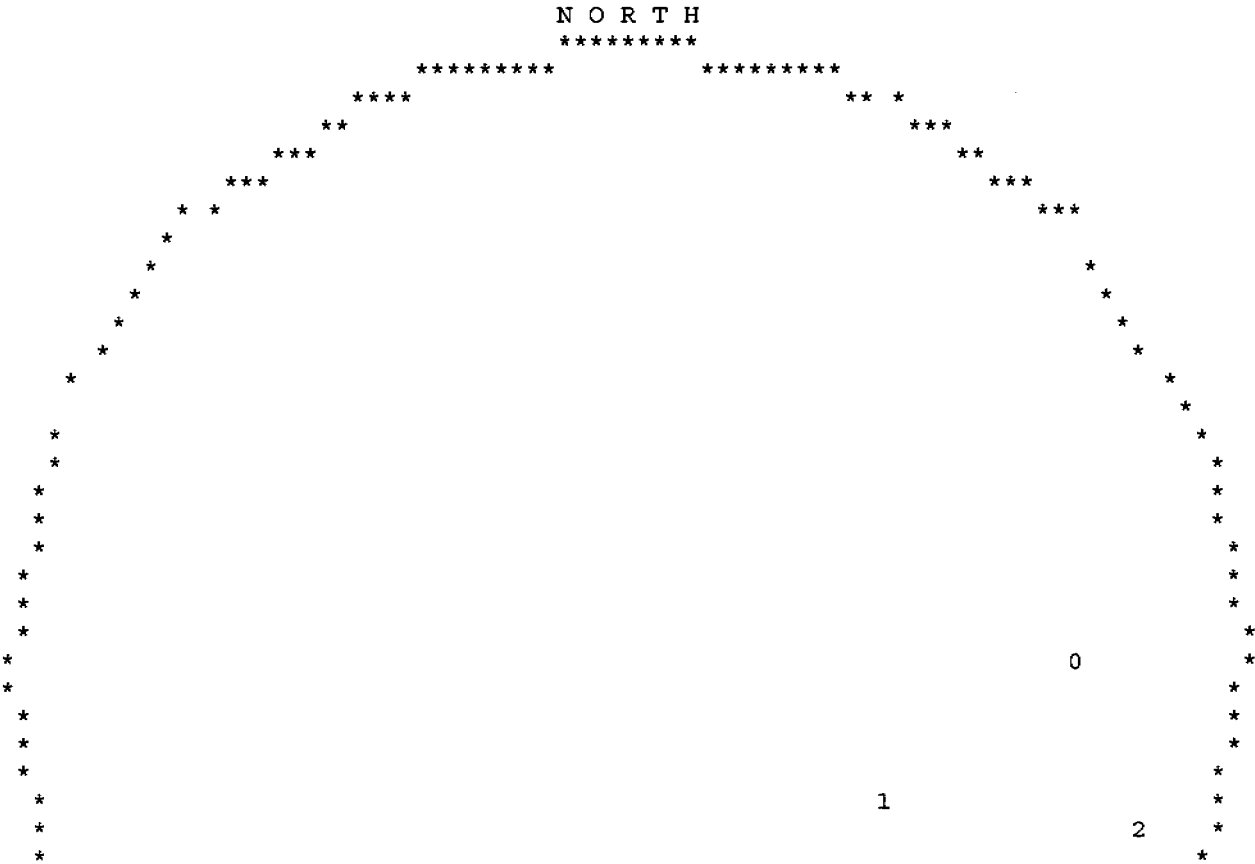
**Conditions of Approval/Application for Permit to Drill:**

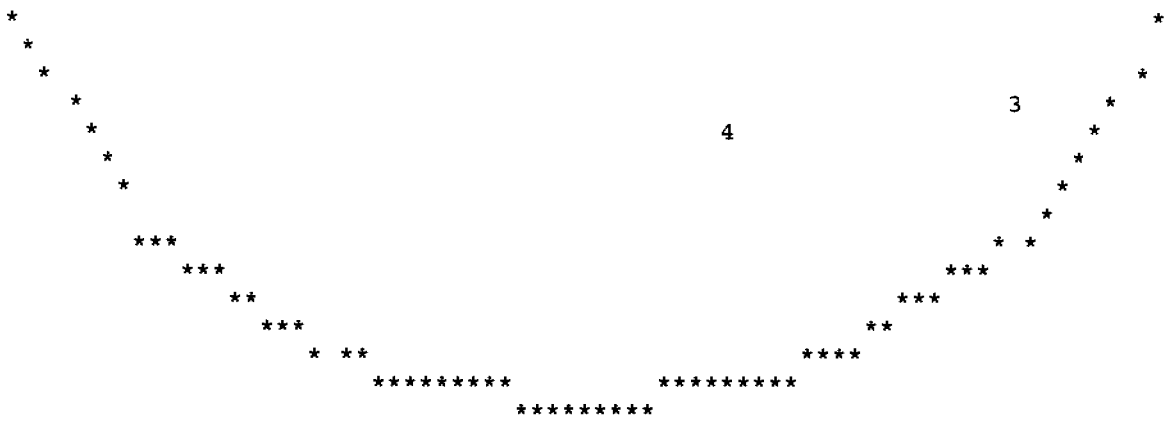
1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
2. Berm the location with a 2' to 3' berm.
3. Berm and fence the reserve pit.
4. Amended location plat showing changes of slope to the NW corner and the road adjusted.

UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED MON, NOV 19, 2001, 10:59 AM  
PLOT SHOWS LOCATION OF 5 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT  
N 101 FEET, W 1108 FEET OF THE SE CORNER,  
SECTION 23 TOWNSHIP 17S RANGE 8E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS  
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
				DIAMETER DEPTH YEAR LOG NORTH EAST	CNR SEC TWN RNG B&M
0	93 1135	2.0000	.00	Underground Drain	N 40 W 20 S4 24 17S 8E SL
	WATER USE(S): IRRIGATION Guymon, Estella Geary				PRIORITY DATE: 00/00/18 Huntington
1	93 1135	2.0000	.00	Underground Drain	S 1150 E 1000 NW 25 17S 8E SL
	WATER USE(S): IRRIGATION Guymon, Estella Geary				PRIORITY DATE: 00/00/18 Huntington
2	93 981	1.1300	.00	Rowley Hollow	S 1320 E 650 N4 25 17S 8E SL
	WATER USE(S): IRRIGATION McElprang, Lee				PRIORITY DATE: 02/23/19 Huntington
				160 South 400 West	
3	93 1135	2.0000	.00	Underground Drain	N 2680 W 30 S4 25 17S 8E SL
	WATER USE(S): IRRIGATION				PRIORITY DATE: 00/00/18



Guymon, Estella Geary

Huntington

4	93 1566	.0150	.00	6	100 - 1000	S	150	E	150	W4	25	17S	8E	SL	
		WATER USE(S): IRRIGATION STOCKWATERING										PRIORITY DATE: 04/04/19:			
		Bishop, Peggy										270 East State Road			
												American Fork			

---

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☒ OTHER:

2. Name of Operator:

Texaco Exploration and Production, Inc.

3. Address and Telephone Number:

3300 North Butler, Farmington, NM 87401: 505-325-4397

4. Location of Well

Footages:

101' FSL, 1108' FEL

QQ, Sec., T., R., M.:

SE/4 SE/4, Section 23, T17S, R8E, SLB&M

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

SWD #5

9. API Well Number:

43-015-30510

10. Field or Pool, or Wildcat:

Wildcat

County: Emery

State: Utah

### 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

#### NOTICE OF INTENT (Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

#### SUBSEQUENT REPORT (Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon *                                       | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                                   | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                                 | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                            | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                       | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Location Layout Changes</u> |   |
| Date of work completion _____  |   |

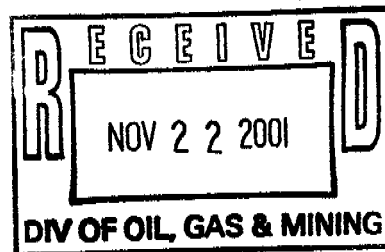
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**Minor changes were made to the submitted location layout and cut and fill sheets  
following the state presite inspection on November 13, 2001.**

**Attached please find and updated location layout and cut and fill sheets.**

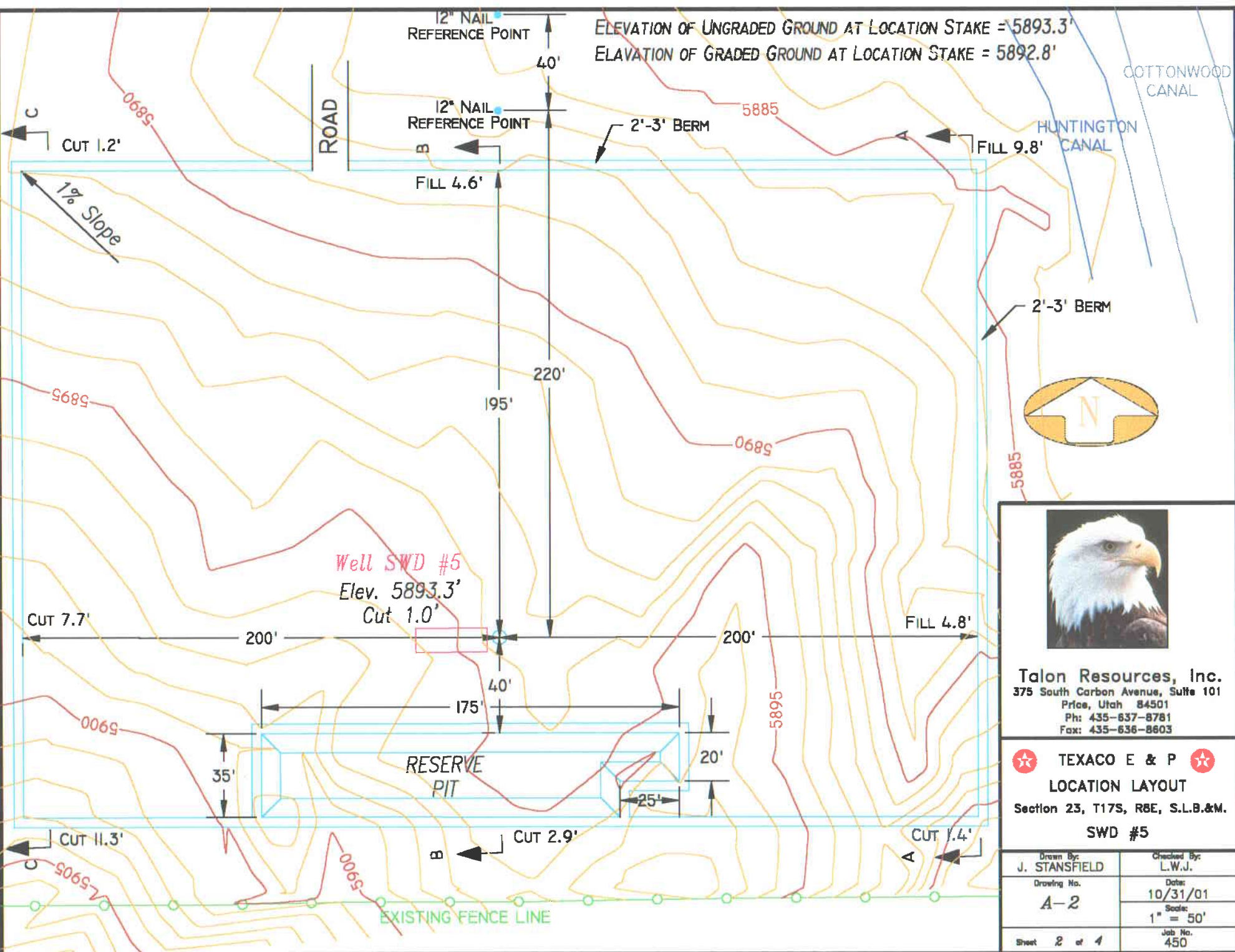


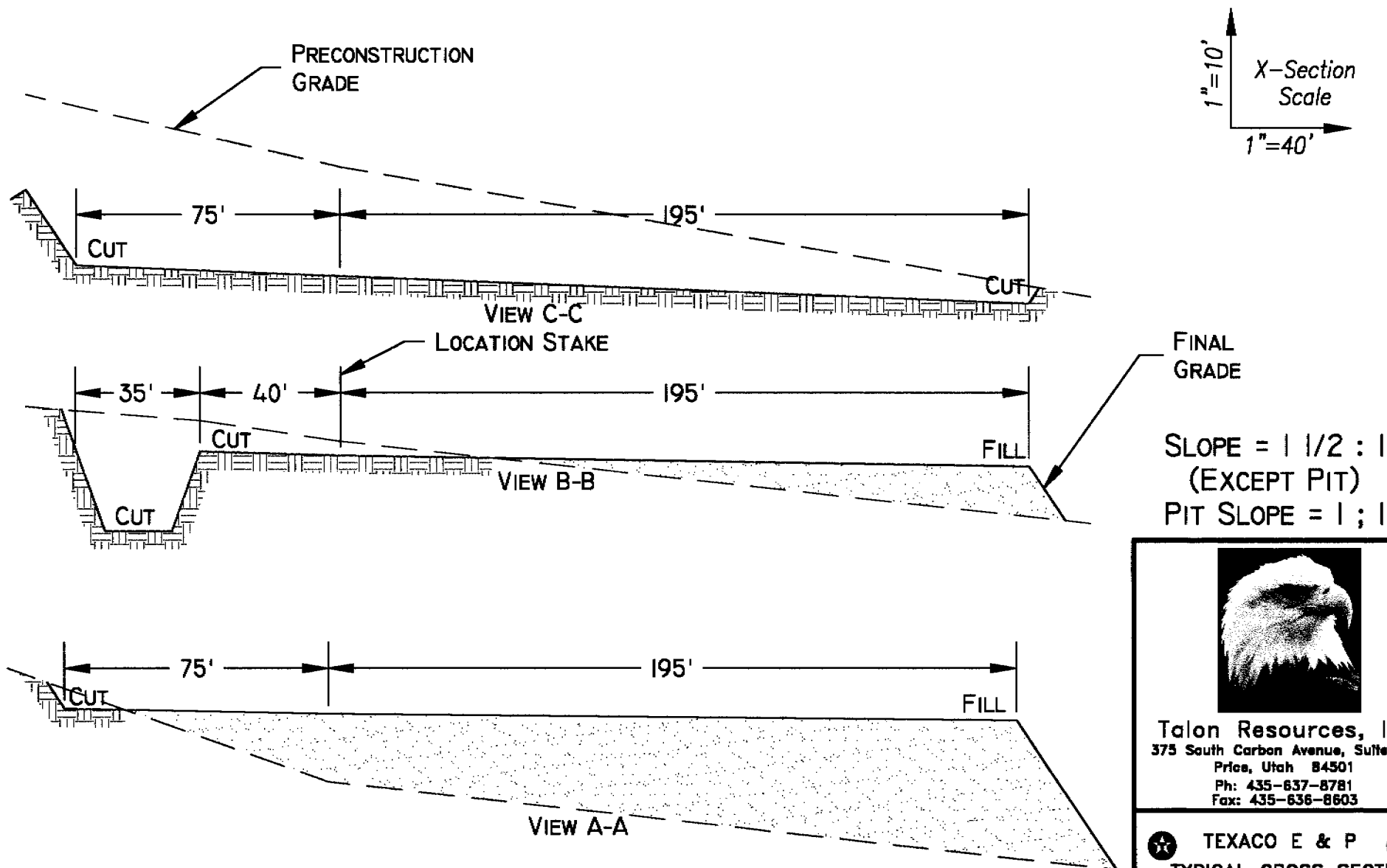
13.

Name & Signature: Don Hamilton Don Hamilton Title: Agent for Texaco Date: 11-20-01

(This space for state use only)

ORIGINAL





**Talon Resources, Inc.**  
 375 South Carbon Avenue, Suite 101  
 Price, Utah 84501  
 Ph: 435-637-8781  
 Fax: 435-636-8603

☆ **TEXACO E & P** ☆  
**TYPICAL CROSS SECTION**  
 Section 23, T17S, R8E, S.L.B.&M.  
 SWD #5

Drawn By: <b>J. STANSFIELD</b>	Checked By: <b>L.W.J.</b>
Drawing No. <b>C-1</b>	Date: <b>11/19/01</b>
	Scale: <b>1" = 40'</b>
Sheet <b>3 of 4</b>	Job No. <b>450</b>

# **APPROXIMATE YARDAGES**

**CUT**  
 (6") TOPSOIL STRIPPING = 750 CU. YDS.  
 REMAINING LOCATION = 7,188 CU. YDS.  
**TOTAL CUT = 8,173 CU. YDS.**  
**TOTAL FILL = 7,774 CU. YDS.**

Well name:

**11-01 Texaco SWD #5**Operator: **Texaco E&P**String type: **Production**

Project ID:

**43-015-30510**Location: **Emery County, Utah****Design parameters:****Collapse**Mud weight: 9.300 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 176 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft**Burst:**

Design factor 1.00

Cement top: 1,793 ft

**Burst**Max anticipated surface pressure: 0 psi  
Internal gradient: 0.483 psi/ft  
Calculated BHP 3,814 psi**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

No backup mud specified.

Tension is based on air weight.  
Neutral point: 6,791 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7895	7	23.00	N-80	LT&C	7895	7895	6.25	364.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3814	3830	1.00	3814	6340	1.66	182	442	2.43 J

7" 23# casing run in last SWD wells

Texaco using collapse of 1.00 DTD 11/27/01

Anticipated BHP =  $(0.052)(9.33)(7895) = 3420 \text{ psi}$ 

Collapse @ 3420 psi = 1.121 SF.

Prepared by: Dustin K. Doucet  
Utah Dept. of Natural ResourcesPhone: (801) 538-5281  
FAX: (801) 359-3940Date: November 27, 2001  
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

11-01 Texaco SWD #5

Operator: **Texaco E&P**String type: **Intermediate**

Project ID:

43-015-30510

Location: **Emery County, Utah****Design parameters:****Collapse**

Mud weight: 8.800 ppg

- Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No

Surface temperature: 65 °F

Bottom hole temperature: 107 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,500 ft

Cement top: 2,093 ft

**Burst**Max anticipated surface  
pressure:

0 psi

Internal gradient: 0.483 psi/ft

Calculated BHP 1,449 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.

Neutral point: 2,609 ft

**Re subsequent strings:**

Next setting depth: 7,895 ft

Next mud weight: 9.300 ppg

Next setting BHP: 3,814 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 3,000 ft

Injection pressure 3,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3000	9.625	36.00	K-55	LT&C	3000	3000	8.765	213.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Klps)	Tension Strength (Klps)	Tension Design Factor
1	1371	2020	1.47	1449	3520	2.43	108	489	4.53 J

Prepared by: Dustin K. Doucet  
Utah Dept. of Natural ResourcesPhone: (801) 538-5281  
FAX: (801)359-3940Date: November 27,2001  
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

**11-01 Texaco SWD #5**Operator: **Texaco E&P**String type: **Surface**

Project ID:

**43-015-30510**Location: **Emery County, Utah****Design parameters:****Collapse**Mud weight: 8.700 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 69 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 300 ft

Cement top: Surface

**Burst**Max anticipated surface  
pressure: 0 psi  
Internal gradient: 0.457 psi/ft  
Calculated BHP 137 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 262 ft

Non-directional string.

**Re subsequent strings:**Next setting depth: 3,000 ft  
Next mud weight: 8.800 ppg  
Next setting BHP: 1,371 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 300 ft  
Injection pressure 300 psi

Run	Segment	Nominal	End	True Vert	Measured	Drift	Internal
Seq	Length	Weight	Finish	Depth	Depth	Diameter	Capacity
	(ft)	(lbs/ft)		(ft)	(ft)	(in)	(ft³)
1	300	48.00	ST&C	300	300	12.59	28.2

Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor
1	136	740	5.46	137	1730	12.62	14	322	22.37 J

Prepared Dustin K. Doucet  
by: Utah Dept. of Natural ResourcesPhone: (801) 538-5281  
FAX: (801)359-3940Date: November 27,2001  
Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# 11-01 Texaco SWD #5

## Casing Schematic

Surface

100'  
Blowdown  
13-3/8"  
MW 8.7  
Frac 19.3

1795  
Frac "A" Cnl

9-5/8"  
MW 8.8  
Frac 19.3

6600'  
Nawajid

7"  
MW 9.3

TOC @  
0  
Surface  
300. MD

600' Dvt

TOC @  
1793.

TOC @

2099.2581' w/ 158 washout

Intermediate  
3000. MD

Production  
7895. MD

w/ 20% washout

→ Strip  
Texaco will cement above  
top of Ferron per Ian Kephart  
11/28/01

w/ 15% washout

BOP

BHP

$$(0.052)(9.3)(7895) = 3818 \text{ psi}$$

Anticipated =





TEXACO

## FAX TRANSMITTAL COVER SHEET

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 11-27-01 ☒ URGENT ☐ ROUTINE NO. OF PAGES 2 + cMESSAGE TO: LISHA CORDOVATELEPHONE NO. \_\_\_\_\_ FAX MACHINE NO. 801-259-3940

DEPT./DIV./SUBS. \_\_\_\_\_

LOCATION SAC, UT ROOM NO. \_\_\_\_\_MESSAGE FROM: CHUCK SNURETELEPHONE NO. \_\_\_\_\_ FAX MACHINE NO. 303-793-4642

DEPT./DIV./SUBS. \_\_\_\_\_

LOCATION DENVER, CO. ROOM NO. \_\_\_\_\_

SENDING DEPT. APPROVAL \_\_\_\_\_ TIME TRANSMITTED \_\_\_\_\_

☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL☐ RETURN ORIGINAL CALL SENDER TO PICK UPADDITIONAL COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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NOV 27 2001

DIVISION OF  
OIL, GAS AND MINING



Texaco Exploration and Production Inc  
Denver Division

P O Box 2100  
Denver CO 80201  
4601 DTC Boulevard  
Denver CO 80237

VIA FAX

November 27, 2001

State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Attn: Lisha Cordova

RE: Application for Permit to Drill  
SWD #5

Dear Lisha,

This letter is to advise you that Texaco has purchased approximately 9.864 acres of surface from Sitterud Family Investments, LLC, P.O. Box 480, Huntington, Utah 84528 for the drilling of our SWD #5 well. The location of this well is being permitted in the SE/4 of Section 23, T17S, R8E, Emery County, Utah. A copy of the Warranty Deed is attached for your convenience.

Thank you in advance for your assistance in approving the APD for this well. Should you need anything further at this time, please let me know.

Yours very truly,

Chuck Snure

CAS:bw  
Attach.

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NOV 27 2001

DIVISION OF  
OIL, GAS AND MINING

## WARRANTY DEED

**SITTERUD FAMILY INVESTMENTS, LLC**, P.O. Box 480, Huntington, Utah 84528 (GRANTOR), for the sum of Ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby grants, conveys and warrants to **TEXACO EXPLORATION AND PRODUCTION INC.**, P.O. Box 2100, Denver, Colorado 80201 (GRANTEE), the surface only of the following tract of land in Emery County, Utah:

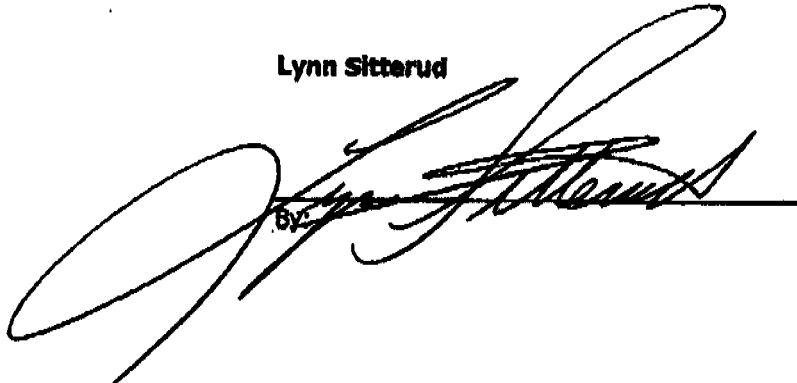
Township 17 South, Range 8 East, S1B&M

Beginning at a point at the 1/16<sup>th</sup> CORNER LOCATED AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER, OF THE SOUTHEAST QUARTER OF SECTION 23, 17S, R8E, S.L.B.&M. THENCE RUNNING N00°57'37"W, 1333.36'; THENCE EAST, 12.21'; THENCE S09°30'16"E, 15.15'; THENCE S32°49'49"E, 304.64'; THENCE S30°03'49"E, 240.75'; THENCE S19°13'05"E, 282.95'; THENCE S12°16'24"E, 102.58'; THENCE S19°49'47"E, 122.10'; THENCE S28°31'08"E, 38.13'; THENCE S12°42'45"E, 178.72'; THENCE S00°16'36"E, 30.43'; THENCE S29°22'02"E, 30.58'; THENCE S06°30'14"W, 73.23'; THENCE S09°30'18"E, 29.17'; THENCE S89°24'50"W, 503.73' MORE OR LESS TO THE POINT OF BEGINNING. APPROX. 9.864 ACRES

As additional consideration herein, it is understood and agreed that at Grantee's sole discretion and upon the cessation of operations by Grantee on the lands conveyed by Grantor hereunder, Grantee shall re-convey said lands to Grantor. Upon such re-conveyance, Grantor hereunder shall indemnify, release and forever discharge Grantee hereunder, its successors and assigns, from all claims, demands, actions or causes of actions resulting or that may result from Grantor's ownership of and operations on said lands on or after the effective date of said re-conveyance.

Executed this 19 day of Nov., 2001.

Lynn Sitterud

A large, stylized handwritten signature in black ink, appearing to read 'Lynn Sitterud', is written over a horizontal line. The signature is fluid and cursive, with a large loop at the beginning and end.

## **TALON RESOURCES, INC.**

---

375 S. Carbon Ave. (A-10), Suite 101, Price, Utah 84501  
Phone: (435) 637-8781 (435) 650-1403 Fax: (435) 636- 8603

---

### **Fax Transmittal Cover Sheet**

**Date: 11-2801**

**Number of pages: 2**

**Message To: Lisha Cordova - DOGM**

**Telephone Number: 1-801-538-5277**

**Fax Number: 1-801-359-3940**

---

**Lisha**

**Attached is a copy of the Texaco SWD-5 exception letter that we spoke of earlier today**

**Please feel free to contact me if you have any changes that need to be made or if you have any questions or need additional information.**

**D. Hamilton**

**RECEIVED**

**NOV 28 2001**

**DIVISION OF  
OIL, GAS AND MINING**

**Talon Resources, Inc.**

Service, Quality and Accuracy

375 South Carbon Avenue A-10  
Suite 101  
Pioche, Utah 84501  
Phone: 435-637-8781  
435-637-5032 Ext 710/711

Cell: 801-650-1401  
801-650-1402  
Fax: 435-636-8608  
Email: talon.5@stetband.com

November 28, 2001

Ms. Lisha Cordova  
State of Utah  
Division of Oil Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Request for Exception to State Spacing Rule—Texaco—SWD #5,  
Emery County, Utah: 101' FSL, 1108' FEL, Section 23, T17S, R8E, SLB&M.

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco) Talon Resources, Inc. respectfully submits this request for exception to spacing and information to supplement the request and the previously submitted APD for the above referenced well.

A request for exception to spacing (state sighting rules) is hereby requested based on geology because the well is located within 460' of the drilling unit boundary and outside of the Huntington (Shallow) CBM.

Texaco will case through and not perforate any potential production intervals.

Texaco will drill and complete this well as a salt water disposal well.

Should Texaco ever desire to plug back and produce from this well the exception to spacing procedure will be followed and completed prior to any production.

Thank you for your timely consideration our previous application. Please feel free to contact me or Mr. Ian Kapat with Texaco at 505-325-4397 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Environmental Manager / Project Coordinator

cc: Mr. Allen Davis, Texaco  
Mr. Chuck Sture, Texaco  
Mr. Ian Kephart, Texaco  
Mr. Roger Johnson, Texaco  
Mr. Ron Wirth, Texaco  
Texaco Well File

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NOV 28 2001

DIVISION OF  
OIL, GAS AND MINING



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

November 28, 2001

Texaco Exploration and Production, Inc.  
3300 North Butler, Suite 100  
Farmington, NM 87401

Re: SWD 5 Well, 101' FSL, 1108' FEL, SE SE, Sec. 23, T. 17 South,  
R. 8 East, Emery County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30510.

Sincerely,

A handwritten signature in cursive script, reading 'John R. Baza'.

John R. Baza  
Associate Director

dm

Enclosures

cc: Emery County Assessor

Operator: Texaco Exploration and Production, Inc.  
Well Name & Number SWD 5  
API Number: 43-015-30510  
Lease: FEE

Location: SE SE Sec. 23 T. 17 South R. 8 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

#### 5. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

#### 6. Cement shall be brought 100' above top of Ferron (approx. 1700') in the intermediate casing string.



**Talon Resources, Inc.**

Service, Quality and Accuracy

375 South Carbon Avenue A-10  
Suite 101  
Price, Utah 84501  
Phone: 435-637-8781  
435-637-5032 Ext 710/711

Cell: 801-650-1401  
801-650-1402  
Fax: 435-636-8603  
Email: talon.5@straband.com

November 28, 2001

**CONFIDENTIAL**

Ms. Lisha Cordova  
State of Utah  
Division of Oil Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Request for Exception to State Spacing Rule—Texaco—SWD #5,  
Emery County, Utah: 101' FSL, 1108' FEL, Section 23, T17S, R8E, SLB&M.

43-015-30510

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco) Talon Resources, Inc. respectfully submits this request for exception to spacing and information to supplement the request and the previously submitted *APD* for the above referenced well.

**A request for exception to spacing (state sighting rules) is hereby requested based on geology because the well is located within 460' of the drilling unit boundary and outside of the Huntington (Shallow) CBM.**

**Texaco will case through and not perforate any potential production intervals.**

**Texaco will drill and complete this well as a salt water disposal well.**

**Should Texaco ever desire to plug back and produce from this well the exception to spacing procedure will be followed and completed prior to any production.**

Thank you for your timely consideration our previous application. Please feel free to contact me or Mr. Ian Kephart with Texaco at 505-325-4397 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Environmental Manager / Project Coordinator

cc: Mr. Allen Davis, Texaco  
Mr. Chuck Snure, Texaco  
Mr. Ian Kephart, Texaco  
Mr. Roger Johnson, Texaco  
Mr. Ron Wirth, Texaco  
Texaco Well File

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DIVISION OF  
OIL, GAS AND MINING



# SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

Bill Redd  
CHAIRMAN

William D. Howell  
EXECUTIVE DIRECTOR



375 SOUTH CARBON AVE.  
P.O. DRAWER 1106  
PRICE, UTAH 84501  
(435) 637-5444  
FAX (435) 637-5448

## AREA WIDE CLEARINGHOUSE REVIEW

Federal Action \_\_\_\_\_ State Action \_\_\_\_\_ Approved ( ) Yes ( ) No

Other (indicate) \_\_\_\_\_

Applicant Address:

**CONFIDENTIAL**

Oil, Gas & Mining

1594 West North Temple #1210

SLC UT 84114-5801

Phone Number: 801-538-5296

Title/Project Description Application for Permit to Drill - Texaco Exploration and

Production, Inc. proposes to drill the SWD #5 well (wildcat) on Patented lease, Emery County,

Utah. 43-015-30510 Sec. 23, 17S, 8E

[ ] No Comment

[ x ] See comment below

Comments: Approved on November 27, 2001, SEUAOG Executive Board Meeting.

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DATE

DEC 13 2001

DIVISION OF  
OIL, GAS AND MINING



Texaco Exploration  
and Production Inc.  
Denver Region

3300 North Butler  
Farmington, NM 87401  
505 325-4397

December 21, 2001

CONFIDENTIAL

Lisha Cordova  
State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

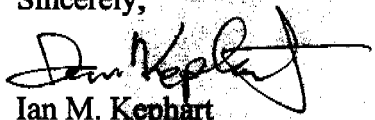
Re: Drilling Reports  
SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT  
43-015-30510

Dear Lisha:

Attached are the current daily drilling reports so far for the subject well. The well was spudded on 12/6/01 and is currently at a depth of 4251'. Target depth is 8005'.

Thank you very much for your time. Please feel free to contact me at (505) 325-4397, ext-105 if you have any questions.

Sincerely,

  
Ian M. Kephart  
Ferron Production Engineer

cc: Farmington well file

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JAN 07 2002

DIVISION OF  
OIL, GAS AND MINING



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 1 Date: 12/6/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS								
FIELD: HUNNINGTON	RKB: 0.00 (ft)	MD/TVD: 200 (ft) / 200 (ft)	DOL/DFS: 1.00 / 1.00									
SPUD DATE: 12/5/2000		FOOTAGE: 200 (ft)	24 HR ROP: 33.33									
RIG: PATTERSON # 5 5	NEXT CSG: (in) @ 0 (ft)	DRILL HRS: 6.00	PROPOSED TD: 8,000 (ft)									
DRLG SUPRS: LEE VAUGHAN 435 687 2197		AFE Days +/- Goal:										
RIG PHONE:	COSTS DRLG & COMP											
CELLPHONE:	CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR: DALE MITCHELL							Est.	0	0	0	0	0
							Est+OE	0	0	0	0	0
							Cum	0	0	0	0	0
							Daily	0	0	1,990	0	1,990

CURRENT OP AT REP TIME: PREPARE TO CONTINUE DRILLING

PLANNED OPERATIONS: DRILL 17 1/2" HOLE, RUN 305' 13 3/8" CSG &amp; CMT.

## SAFETY SUMMARY

MANHRS WORKED: 180.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: / REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

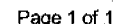
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
07:00	12:00	5.00	PT	003	SAFETY MEETING. RIG UP & DRILL RAT HOLE, MOUSE HOLE & 11' CONDUCTOR HOLE WITH AIR RIG
12:00	18:00	6.00	PT	003	DRILL 17 1/2" HOLE TO 200' & SDFN NOTIFIED UTAH STATE DEPT OF CSG & CMT JOB. STANDBY COST FOR CREW WHILE WAITING ON PERMITS WAS 42,416.00 THIS DOES NOT INCLUDE 8 DAYS SUPERVISOR COST

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
BILL RAT HOLE CO	4	48.00	CALLAWAY SAFETY	1	24.00
CHEVRON TEXACO	1	24.00	PATTERSON DRLG	6	84.00

## Comments

LEE VAUGHAN CELL# 915 642 0464



Well Name: SWD # 5      WBSE:      API: 43-015-30510      Rpt #: 2      Date: 12/7/2001

LEE VAUGHAN CELL# 915 642 0464      NEAR MISS INCIDENT: DERRICK PINS LEFT ON "A" FRAME & FELL OFF WHEN  
"A" WAS LOWERED



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 3 Date: 12/8/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS								
FIELD: HUNNINGTON	RKB: 0.00 (ft)	MD/TVD: 304 (ft) / 304 (ft)	DOL/DFS: 3.00 / 3.00									
SPUD DATE: 12/5/2000		FOOTAGE: (ft)	24 HR ROP:									
RIG: PATTERSON # 5 5	NEXT CSG: 9.625 (in) @ 3,000 (ft)	DRILL HRS:	PROPOSED TD: 8,000 (ft)									
DRLG SUPRS:			AFE Days +/- Goal:									
LEE VAUGHAN 435 687 2197	<b>CASING</b>		<b>COSTS DRLG &amp; COMP</b>									
RIG PHONE:	CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE:	13.375	304	304			N	Est.	0	0	0	0	0
ENGR: DALE MITCHELL							Est+OE	0	0	0	0	0
							Cum	0	0	0	0	0
							Daily	9,970	0	0	0	9,970

CURRENT OP AT REP TIME: RIGGING UP

PLANNED OPERATIONS: RIG UP

**SAFETY SUMMARY**

MANHRS WORKED: 368.00 SAFETY MTGS ATTENDED: 5 DAYS SINCE LAST LTA RIG/OPER: 1 / 1 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

**OPERATION SUMMARY**

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
07:00	19:00	12.00	PT	001	SAFETY MEETING. INSTALL 13 5/8" X 3000 CSG HEAD & TEST TO 1000 PSI OK. DRILLING RIG 80 % MOVED & 20 % RIGGED UP

**PERSONNEL DATA**

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PATTERSON DRLG	12	144.00
CALLAWAY SAFETY	1	24.00	J-WEST TRUCKING	22	176.00

**Comments**

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 4 Date: 12/9/2001

WELL INFO	ELEVATIONS	DEPTH/DAYS
FIELD: HUNNINGTON	RKB: 0.00 (ft)	MD/TVD: 304 (ft) / 304 (ft)
SPUD DATE: 12/5/2000		DOL/DFS: 4.00 / 4.00
RIG: PATTERSON # 5 5		24 HR ROP: (ft)
DRLG SUPRS:	NEXT CSG: 9.625 (in) @ 3,000 (ft)	PROPOSED TD: 8,000 (ft)
LEE VAUGHAN 435 687 2197		AFE Days +/- Goal:
RIG PHONE:	CASING	COSTS DRLG & COMP
CELLPHONE:	CSG MD TVD TOL LO LNR	DH Cash DH MOH CompCash CompMOH Conteng TOTAL
ENGR:	13.375 304 304	Est. 0 0 0 0 0 0
DALE MITCHELL		Est+OE 0 0 0 0 0 0
		Cum 0 0 0 0 0 0
		Daily 18,250 0 0 0 0 18,250

CURRENT OP AT REP TIME: RIGGING UP  
PLANNED OPERATIONS: RIG UP & SPUD 12 1/4" HOLE

## SAFETY SUMMARY

MANHRS WORKED: 272.00 SAFETY MTGS ATTENDED: 7 DAYS SINCE LAST LTA RIG/OPER: 2 / 2 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
07:00	19:00	12.00	PT	001	SAFETY MEETING & RIG UP 90% RIGGED UP DELAY DUE TO RIG POWER PLANT DOWN

## PERSONNEL DATA

POB: 28

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	SWACO	1	4.00
CALLAWAY SAFETY	1	24.00	PASON	1	4.00
PATTERSON DRLG	12	144.00	WEATHERFORD	6	24.00
J-WEST TRUCKING	6	48.00			

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5		WBSE:		API: 43-015-30510		Rpt #: 5		Date: 12/10/2001					
<b>WELL INFO</b>		<b>ELEVATIONS</b>			<b>DEPTH/DAYS</b>								
FIELD: HUNNINGTON		RKB: 0.00 (ft)			MD/TVD: 304 (ft) / 304 (ft)		DOL/DFS: 5.00 / 5.00						
SPUD DATE: 12/5/2000					FOOTAGE: (ft)		24 HR ROP:						
RIG: PATTERSON # 5 5		NEXT CSG: 9.625 (in) @ 3,000 (ft)			DRILL HRS:		PROPOSED TD: 8,000 (ft)						
DRLG SUPRS:							AFE Days +/- Goal:						
LEE VAUGHAN 435 687 2197													
RIG PHONE:		<b>CASING</b>			<b>COSTS DRLG &amp; COMP</b>								
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR:		13.375	304	304			N	Est.	0	0	0	0	0
DALE MITCHELL								Est+OE	0	0	0	0	0
								Cum	0	0	0	0	0
								Daily	28,569	0	0	0	30,626

CURRENT OP AT REP TIME: NIPPLING UP  
PLANNED OPERATIONS: TEST BOPS & DRILL OUT

## SAFETY SUMMARY

MANHRS WORKED: 244.00 SAFETY MTGS ATTENDED: 8 DAYS SINCE LAST LTA RIG/OPER: 3 / 3 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	00:00	18.00	PT	001	SAFETY MEETING. CONTINUE RIGGING UP.HAD PROBLEMS WITH FROZEN LINES & GETTING THE BOILER IN OPERATING CONDITION
00:00	06:00	6.00	PT	014	NIPPLE UP BOPs THE AIR PKG ARRIVED ON LOCATION SAT. 12/8/01

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON	1	4.00
CALLAWAY SAFETY	1	24.00	WEATHERFORD	6	48.00
PATTERSON DRLG	11	144.00			

## DAILY OPERATIONAL COMMENTS

ALONG WITH THE EQUIP. PROBLEMS, A LOT OF THE CREW HAS THE FLU, WHICH HAS SLOWED US DOWN

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 6 Date: 12/11/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 0.00 (ft)			MD/TVD: 304 (ft) / 304 (ft)	DOL/DFS: 6.00 / 6.00
SPUD DATE: 12/5/2000				FOOTAGE: (ft)	24 HR ROP:
RIG: PATTERSON # 5 5	NEXT CSG: 9.625 (in) @ 3,000 (ft)			DRILL HRS:	PROPOSED TD: 8,000 (ft)
DRLG SUPRS:				AFE Days +/- Goal:	
LEE VAUGHAN 435 687 2197					
RIG PHONE:					
CELLPHONE:					
ENGR: DALE MITCHELL					

CASING						COSTS DRLG & COMP						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
13.375	304	304			N	Est.	0	0	0	0	0	0
						Est+OE	0	0	0	0	0	0
						Cum	0	0	0	0	0	0
						Daily	28,792	0	0	0	2,079	30,871

CURRENT OP AT REP TIME: PREPARE TO PICK UP BHA # 1  
PLANNED OPERATIONS: DRILL CMT & SHOE,POH TO PICK UP HAMMER

SAFETY SUMMARY			
MANHRS WORKED: 276.00	SAFETY MTGS ATTENDED: 9	DAYS SINCE LAST LTA RIG/OPER: 4 / 4	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS:	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	21:00	15.00	PT	014	CONTINUE NIPPLE UP BOPS & OPEN PIPE RAMS GATE TO REMOVE MIXTURE OF MUD & CMT IN ORDER TO CLOSE RAMS.
21:00	02:00	5.00	PT	015	TEST BOP RAMS ,VALVES & MANIFOLD 250 PSI LOW & 3000 HIGH. TEST HYDRIL 250 LOW & 1500 HIGH
02:00	06:00	4.00	PT	025	PREPARE TO PICK UP # 1 BHA & THAW OUT WATER LINES. EVERY THING ON THE MUD PITS FROZEN UP

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										

BIT OPERATIONS													
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP	
2	1RR	/	/										

BHA / HOLE CONDITIONS							
BHA # 1	BIT # 1RR	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
						/	
BHA LENGTH: 0.00		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:			

PERSONNEL DATA						POB: 20
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS	
CHEVRON TEXACO	1	24.00	WEATHERFORD	6	72.00	
CALLAWAY SAFETY	1	24.00	BOP TESTER	1	12.00	
PATTERSON DRLG	11	144.00				

Comments
LEE VAUGHAN CELL# 915 642 0464





# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 7 Date: 12/12/2001

WELL INFO		ELEVATIONS					DEPTH/DAYS							
FIELD: HUNNINGTON		RKB:		0.00 (ft)			MD/TVD:		737 (ft) / 737 (ft)		DOL/DFS:		7.00 / 7.00	
SPUD DATE: 12/5/2000							FOOTAGE:		433 (ft)		24 HR ROP:		61.86	
RIG: PATTERSON # 5 5							DRILL HRS:		7.00		PROPOSED TD:		8,000 (ft)	
DRLG SUPRS:		NEXT CSG: 9.625 (in) @ 3,000 (ft)									AFE Days +/- Goal:			
LEE VAUGHAN 435 687 2197		CASING					COSTS DRLG & COMP							
RIG PHONE:		CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE:		13.375	304	304			N	Est.	0	0	0	0	0	0
ENGR:								Est+OE	0	0	0	0	0	0
DALE MITCHELL								Cum	0	0	0	0	0	0
								Daily	19,526	0	0	0	1,153	20,679

CURRENT OP AT REP TIME: DRILLING  
PLANNED OPERATIONS: DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 240.00 SAFETY MTGS ATTENDED: 12DAYS SINCE LAST LTA RIG/OPER: 5 / 5 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	12:30	6.50	PT	025	THAW OUT WATER & AIR LINES ON MUD & PUMP SYSTEM WITH PEAR-BURNER.
12:30	13:30	1.00	PT	006	RIH WITH BHA # 1 ( 12 1/4"BIT ) TAG CEMENT @ 278'
13:30	14:30	1.00	PT	003	DRILL CMT TO 288' & TEST CSG TO 1000 PSI OK
14:30	16:00	1.50	PT	003	DRILL CMT SHOE & 6' FORMATION TO 310'
16:00	19:00	3.00	PT	005	CIRC.HOLE CLEAN & WLS ( 3/4 DEG ) BLOW HOLE DRY WITH AIR PKG & POH
19:00	22:00	3.00	PT	006	PICK UP 10 3/4" HAMMER & 12 3/4 BIT & RIH TO 310'
22:00	23:00	1.00	PT	025	INSTALL WEAR BUSHING & CHANGE R/HEAD RUBBER
23:00	06:00	7.00	PT	003	DRILL F/310' TO 737' WITH 2200 CFM ( 58 FPH ) 18 HRS FROM SPUD

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
-----	-------	-----	-----	-----	----------	-------	-----	----------	----------	---------	-----------	---------

BHA # 2 BIT # 1 BHA / HOLE CONDITIONS

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)	

BHA LENGTH: 339.31 MIN ID: 2.812 BHA HRS SINCE LAST INSPECTION:

BHA DESCRIPTION: 1-Polycrystalline Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 8-Drill Collar

## HYDRAULICS / PUMPS

FLOW RATE:		0.00	HSI:		IMPACT:		.00	JET VEL:		AV DC:		AV DP:		ECD	
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)			
1	D-1000		6.000	10.000					/		/				

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
300	0.750	0.000	0.00	0.00	0.00	0.00							

## PERSONNEL DATA

POB: 17

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PATTERSON DRLG	11	144.00
CALLAWAY SAFETY	1	24.00	WEATHERFORD	4	48.00

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 8 Date: 12/13/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS								
FIELD: HUNNINGTON		RKB:		0.00 (ft)		MD/TVD:		795 (ft) / 795 (ft)		DOL/DFS:		8.00 / 8.00		
SPUD DATE: 12/5/2000						FOOTAGE:		58 (ft)		24 HR ROP:		38.67		
RIG: PATTERSON # 5 5						DRILL HRS:		1.50		PROPOSED TD:		8,000 (ft)		
DRLG SUPRS:		NEXT CSG: 9.625 (in) @ 3,000 (ft)								AFE Days +/- Goal:				
LEE VAUGHAN 435 687 2197		CASING				COSTS DRLG & COMP								
RIG PHONE:		CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE:		13.375	304	304			N	Est.	0	0	0	0	0	0
ENGR:								Est+OE	0	0	0	0	0	0
DALE MITCHELL								Cum	0	0	0	0	0	0
								Daily	18,127	0	0	0	1,013	19,140

CURRENT OP AT REP TIME: LEVELING DERRICK  
PLANNED OPERATIONS: LEVEL RIG & CONTINUE DRILLING

## SAFETY SUMMARY

MANHRS WORKED: 256.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 6 / 6 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	07:30	1.50	PT	003	DRILL F/737' TO 795' BLOCKS STILL 18 INCHES OFF CENTER . TOO DANGEROUS TO CONTINUE DRILLING.
07:30	09:30	2.00	N1	007	POH LAYING DOWN PIPE & COLLARS TO LEVEL DERRICK. RIG ON DOWN TIME @ 0730 HRS
09:30	06:00	20.50	N1	031	ATTEMPT TO RAISE SUB-BASE WITH 2 TANDEM TRUCKS & BROKE 2 WINCH LINES . WAIT ON RAMP TO RIG DOWN DRAW WORKS & MOVE PUMPS OUT.THIS WILL ALLOW US TO LEVEL THE BACK SIDE OF THE SUB-BASE

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										
1	2	12.250															

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	4 /	35 /		1,660		1.50	58	38.67	1.50	58.0	38.67

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W	CUM DOGLEG
785	1.500	0.000	484.90	9.52	9.52	0.00	0.15						

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	WEATHERFORD	4	48.00
CALLAWAY SAFETY	1	24.00	J-WEST TRUCK CO.	4	16.00
PATTERSON DRLG	11	144.00			

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 9 Date: 12/14/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 0.00 (ft)	MD/TVD: 1,205 (ft) / 1,205 (ft)		DOL/DFS: 9.00 / 9.00	
SPUD DATE: 12/5/2000		FOOTAGE: 410 (ft)		24 HR ROP: 51.25	
RIG: PATTERSON # 5 5		DRILL HRS: 8.00		PROPOSED TD: 8,000 (ft)	
DRLG SUPRS:	NEXT CSG: 9.625 (in) @ 3,000 (ft)			AFE Days +/- Goal:	
LEE VAUGHAN 435 687 2197					
RIG PHONE:					
CELLPHONE:					
ENGR:					
DALE MITCHELL					

COSTS DRLG & COMP											
CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
13.375	304	304			N	Est. 0	0	0	0	0	0
						Est+OE 0	0	0	0	0	0
						Cum 0	0	0	0	0	0
						Daily 25,882	0	0	0	2,322	28,204

CURRENT OP AT REP TIME: DRILLING  
PLANNED OPERATIONS: DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 272.00 SAFETY MTGS ATTENDED: 16DAYS SINCE LAST LTA RIG/OPER: 7 / 7 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	18:00	12.00	N1	031	SET OUT DRAW WORKS,MOTORS & PUMPS & LEVEL THE RIG. SET EVERY THING BACK IN .
18:00	22:00	4.00	N1	006	PICK UP BIT,HAMMER & DRILL COLLARS.RIH TO 795'. NO FILL . RIG BACK ON DAY RATE @ 2200 HRS 12/13/2001. TOTAL DOWN TIME WAS 38.5 HRS
22:00	06:00	8.00	PT	003	DRILL F/795' TO 1205' WITH 2500 CFM 2 DAYS+18 HRS FROM SPUD

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										
1	2	12.250	WEATHERFOR	PDC													

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	5 / 5	35 / 35				8.00	410	51.25	9.50	468.0	49.26

## BHA / HOLE CONDITIONS

BHA #2	BIT #2	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH:	338.27	MIN ID:	2.312			BHA HRS SINCE LAST INSPECTION:	20
BHA DESCRIPTION:1-Polycrystalline Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 8-Drill Collar, -							

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	WEATHERFORD	4	48.00
CALLAWAY SAFETY	1	24.00	J-WEST TRUCK CO.	4	32.00
PATTERSON DRLG	11	144.00			

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 10 Date: 12/15/2001

WELL INFO		ELEVATIONS					DEPTH/DAYS							
FIELD: HUNNINGTON		RKB: 0.00 (ft)					MD/TVD: 2,548 (ft) / 2,548 (ft)				DOL/DFS: 10.00 / 10.00			
SPUD DATE: 12/5/2000							FOOTAGE: 1,343 (ft)				24 HR ROP: 59.69			
RIG: PATTERSON # 5 5							DRILL HRS: 22.50				PROPOSED TD: 8,000 (ft)			
DRLG SUPRS:		NEXT CSG: 9.625 (in) @ 3,000 (ft)					AFE Days +/- Goal:							
LEE VAUGHAN 435 687 2197														
RIG PHONE:		CASING					COSTS DRLG & COMP							
CELLPHONE:		CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
ENGR:		13.375	304	304			N	Est.	0	0	0	0	0	0
DALE MITCHELL								Est+OE	0	0	0	0	0	0
								Cum	0	0	0	0	0	0
								Daily	24.436	0	660	0	1.710	26.805

CURRENT OP AT REP TIME: DRILLING  
PLANNED OPERATIONS: DRILL, TD HOLE, RUN 9 5/8 CSG & CMT**SAFETY SUMMARY**

MANHRS WORKED: 240.00 SAFETY MTGS ATTENDED: 18 DAYS SINCE LAST LTA RIG/OPER: 8 / 8 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

**OPERATION SUMMARY**

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	08:30	2.50	PT	003	DRILL F/1205' TO 1322' W/2500 CFM
08:30	09:00	0.50	PT	012	WLS 1 DEG
09:00	17:00	8.00	PT	003	DRILL F/1322' TO 1822'
17:00	17:30	0.50	PT	012	RIG SERVICE, SAFETY MEETING & WLS 1 DEG
17:30	22:30	5.00	PT	003	DRILL F/1822' TO 2229'
22:30	23:00	0.50	PT	012	WLS 1 1/2 DEG
23:00	06:00	7.00	PT	003	DRILL F/2229' TO 2548' WITH 3000 CFM

**BITS**

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										
1	2	12.250	WEATHERFOR	PDC													

**BIT OPERATIONS**

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	3 / 5	30 / 35				22.50	1,343	59.69	32.00	1,811.0	56.59

**BHA #2 BIT #2 BHA / HOLE CONDITIONS**

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 338.27	MIN ID: 2.312			BHA HRS SINCE LAST INSPECTION: 38	

BHA DESCRIPTION: 1-Polycrystalline Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 8-Drill Collar, -

**SURVEY DATA**

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
1,340	1.000	0.000	1,039.77	21.63	21.63	0.00	0.09	2,229	1.500	0.000	1,928.60	39.02	39.02	0.00	0.12
1,800	1.000	0.000	1,499.70	29.66	29.66	0.00	0.00								

**PERSONNEL DATA**

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PATTERSON DRLG	11	144.00
CALLAWAY SAFETY	1	24.00	WEATHERFORD	4	48.00

**DAILY OPERATIONAL COMMENTS**

INFORMED MARK JONES, STATE MAN OF CMT. JOB 2100 HRS 12/14/01

**Comments**

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 11 Date: 12/16/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON		RKB: 0.00 (ft)		DOL/DFS: 11.00 / 11.00	
SPUD DATE: 12/5/2000				24 HR ROP: 54.35	
RIG: PATTERSON # 5 5				PROPOSED TD: 8,000 (ft)	
DRLG SUPRS:		NEXT CSG: 9.625 (in) @ 3,000 (ft)		DRILL HRS: 8.50	
LEE VAUGHAN 435 687 2197				AFE Days +/- Goal:	
RIG PHONE:					
CELLPHONE:					
ENGR:					
DALE MITCHELL					

CURRENT OP AT REP TIME: WOC  
PLANNED OPERATIONS: CUT CSG, INSTALL "B" SECTION & NIPPLE UP, TEST BOP

## SAFETY SUMMARY

MANHRS WORKED: 392.00 SAFETY MTGS ATTENDED: 2/DAYS SINCE LAST LTA RIG/OPER: 9 / 9 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	10:00	4.00	PT	003	DRILL F/2548' TO 2730' 3000 CFM
10:00	10:30	0.50	PT	012	WLS 1 1/2 DEG
10:30	14:30	4.00	PT	003	DRILL F/2730' TO 3010' WLS 1 1/2 DEG
14:30	15:00	0.50	PT	005	CLEAN THE HOLE W/AIR
15:00	18:00	3.00	PT	007	POH & LAY DOWN 3 8" DRILL COLLARS
18:00	19:00	1.00	PT	010	LAY DOWN HAMMER & BIT. CLEAR FLOOR & RIG UP CSG TOOLS.
19:00	01:00	6.00	PT	030	RUN 69 JTS. 9 5/8" J-55 LTC 36# CSG. SHOE @ 3010 & FLOAT COLLAR @ 2965'
01:00	04:00	3.00	PT	021	PUMP 345 SKS CLASS "G" LEAD CMT WITH 12%D20, 1%D79, 0.5%D112, 0.2%D46, 2%S1 & 0.25 PPS D29. 170 SKS 10:2 RFC +2% S1 & 0.25 PPS D29. OVER DISPLACED 1 BBL, AND DID NOT BUMP THE PLUG. HAD 25 BBLs CMT. TO SURFACE. SHUT IN AFTER 1 BBL FLOW BACK.
04:00	06:00	2.00	PT	013	WOC WITH WELL SHUT IN

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										
1	2	12.250	WEATHERFOR	PDC													

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
-----	-------	-----	-----	-----	----------	-------	-----	----------	----------	---------	-----------	---------

BHA # 2 BIT # 2

## BHA / HOLE CONDITIONS

BHA WT BELOW JARS		P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)		(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)	

BHA LENGTH: 338.27 MIN ID: 2.312 BHA HRS SINCE LAST INSPECTION: 56

BHA DESCRIPTION: 1-Polycrystalline Diamond Bit, 1-HAMMER, 3-Drill Collar, 1-Cross Over, 8-Drill Collar, -

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
2,730	1.500	0.000	2,429.42	52.13	52.13	0.00	0.00	3,000	1.500	0.000	2,699.33	59.20	59.20	0.00	0.00

## PERSONNEL DATA

COMPANY		#	MAN HRS	COMPANY		#	MAN HRS
CHEVRON TEXACO		1	24.00				
CALLAWAY SAFETY		1	24.00	R & S CSG CREW		6	72.00
PATTERSON DRLG		11	144.00	DOWELL CEMENTERS		6	72.00
WEATHERFORD		4	48.00	VETCO GRAY		1	8.00

## DAILY OPERATIONAL COMMENTS

18 HRS + 4 DAYS FROM SPUD

Printed: 12/16/2001 6:39:45 AM



**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 11

Date: 12/16/2001

**Comments**

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 12 Date: 12/17/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS			
FIELD: HUNNINGTON		RKB: 0.00 (ft)		MD/TVD: 3,010 (ft) / 3,010 (ft)		DOL/DFS: 12.00 / 12.00	
SPUD DATE: 12/5/2000				FOOTAGE: (ft)		24 HR ROP:	
RIG: PATTERSON # 5 5				DRILL HRS:		PROPOSED TD: 8,000 (ft)	
DRLG SUPRS:		NEXT CSG: 7,000 (in) @ 8,000 (ft)				AFE Days +/- Goal:	
LEE VAUGHAN 435 687 2197							
RIG PHONE:							
CELLPHONE:							
ENGR:							
DALE MITCHELL							

CURRENT OP AT REP TIME: PREPARE TO DRILL CEMENT  
PLANNED OPERATIONS: DRILL CMT,TEST CSG & DRILL OUT

## SAFETY SUMMARY

MANHRS WORKED: 252.00 SAFETY MTGS ATTENDED: 2/DAYS SINCE LAST LTA RIG/OPER: 10 / 10 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	07:00	1.00	PT	013	WOC & SAFETY MEETINGS
07:00	12:00	5.00	PT	014	RAISE BOP,SET SLIPS & ROUGH CUT PIPE. NIPPLE DOWN & SET "B" SECTION. TEST TO 1500 PSI
12:00	18:00	6.00	PT	014	NIPPLE UP BOPs
18:00	20:30	2.50	PT	015	TEST BOPs 250 LOW & 3000 PSI HIGH
20:30	01:00	4.50	PT	010	INSTALL WEAR BUSHING & PICK UP 8 3/4" BIT.P/U 27 6" D/COLLARS
01:00	02:30	1.50	PT	006	RUN 5 STDS DRILL PIPE IN HOLE & LAY DOWN 15 JTS.
02:30	04:00	1.50	PT	006	FILL PITS WITH WATER & RIH WITH BHA # 2
04:00	05:00	1.00	PT	003	RIH & TAG CEMENT & 2880'
05:00	06:00	1.00	PT	003	THAW OUT PUMP LINES & PUMPS

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/////										
1	2	12.250	WEATHERFOR	PDC													
1	2	8.750	Smith	F-15H	517X	MJ4164	15/15/15/////	3,010.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	/	/									

## BHA / HOLE CONDITIONS

BHA # 3	BIT # 2	BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
		(klb)	(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)	

BHA LENGTH: 813.45 MIN ID: 2.250 BHA HRS SINCE LAST INSPECTION: 12

BHA DESCRIPTION:1-Tri-Cone Bit, 1-Cross Over, 27-Drill Collar, -

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	WEATHERFORD	4	48.00
CALLAWAY SAFETY	1	24.00	BOP TESTERS	1	12.00
PATTERSON DRLG	11	144.00			

## DAILY OPERATIONAL COMMENTS

5 DAYS &amp; 18 HRS FROM SPUD

## Comments

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 13 Date: 12/18/2001

WELL INFO		ELEVATIONS				DEPTH/DAYS								
FIELD: HUNNINGTON		RKB:		0.00 (ft)		MD/TVD:			3,485 (ft) / 3,485 (ft)		DOL/DFS:		13.00 / 13.00	
SPUD DATE: 12/5/2000											24 HR ROP:		25.68	
RIG: PATTERSON # 5 5									475 (ft)		PROPOSED TD:		8,000 (ft)	
DRLG SUPRS:		NEXT CSG: 7.000 (in) @ 8,000 (ft)				DRILL HRS:			18.50		AFE Days +/- Goal:			
LEE VAUGHAN 435 687 2197														
RIG PHONE:														
CELLPHONE:														
ENGR:														
DALE MITCHELL														

CASING							COSTS DRLG & COMP						
CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL	
9.625	3,010	3,010			N	Est.	0	0	0	0	0	0	
13.375	304	304			N	Est+OE	0	0	0	0	0	0	
						Cum	0	0	0	0	0	0	
						Daily	11,852	0	60,894	0	6,475	79,220	

CURRENT OP AT REP TIME: DRILLING  
PLANNED OPERATIONS: WLS & DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 218.00 SAFETY MTGS ATTENDED: 25 DAYS SINCE LAST LTA RIG/OPER: 11 / 11 REC: N F/A: N GOVT INSP?  
INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS:  
INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	08:30	2.50	N5	025	THAW OUT WATER & MUD LINES FROM PUMPS TO RIG
08:30	10:00	1.50	PT	003	DRILL CMT TO F/C @ 2965' . TEST CSG TO 1500 PSI.DRILL F/C.CMT. & SHOE @ 3010'
10:00	11:00	1.00	PT	005	CIRCULATE & CONDITION MUD
11:00	11:30	0.50	PT	009	RIG SERVICE & SAFETY MEETING
11:30	06:00	18.50	PT	003	DRILL F/3010' TO 3485'

## MUD PROPERTIES

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS SAND% CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
05:00	3,440	8.80	31		5/5	3/9	16.4	2.0	10.50	0.8/0.40	80	100	/	/	FRESH	/2.0

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/16/16/16										
1	2	12.250	WEATHERFOR	PDC													
1	2	8.750	Smith	F-15H	517X	MJ4164	15/15/15/15/15/15	3,010.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	2	45 / 50	50 / 55	401	1,300		18.50	475	25.68	18.50	475.0	25.68

BHA #3		BIT #2		BHA / HOLE CONDITIONS			
BHA WT BELOW JARS		P/U WT	S/O WT	RT WT	TORQUE ON/OFF		HRS ON JARS
(klb)		(klb)	(klb)	(klb)	(ft-lbf) / (ft-lbf)		
BHA LENGTH: 813.45		MIN ID: 2.250		BHA HRS SINCE LAST INSPECTION: 37			
BHA DESCRIPTION:1-Tri-Cone Bit, 1-Cross Over, 27-Drill Collar, -							

## HYDRAULICS / PUMPS

FLOW RATE:		401.17	HSI:		0.000	IMPACT:		.00	JET VEL:		0.0	AV DC:			AV DP:			ECD				
#	PUMP		LINER (in)		STROKE (in)		SPM		GPM		PRES (psi)		EFF %		SPM1/SPR1		PRES (psi)		SPM2/SPR2		PRES (psi)	
1	D-1000		6.000		10.000		115		401.17		1,300		95.0		/				/			

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00			

## DAILY OPERATIONAL COMMENTS

6 DAYS + 18 HRS FROM SPUD





# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 13

Date: 12/18/2001

## Comments

LEE VAUGHAN CELL# 915 642 0464



**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 13

Date: 12/18/2001

**Comments**

LEE VAUGHAN CELL# 915 642 0464



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 14

Date: 12/19/2001

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
CAUSTIC SODA	100 LB	POLY PLUS	20 GAL
DRAYAGE	0	SAWDUST	100 LB
ENGINEERING SERVICE	0	SODA ASH	550 LB
M-I BAR BAGGED	1,200 LB	MICA	200 LB
M-I GEL	5,000 LB	PAC REG	50 LB
PLASTIC SHEETS	0		

## PERSONNEL DATA

POB: 16

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00			

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt # 15 Date: 12/20/2001

WELL INFO		ELEVATIONS						DEPTH/DAYS						
FIELD: HUNNINGTON		RKB: 5,908.00 (ft)						MD/TVD: 4,000 (ft) / (ft)			DOL/DFS: 15.00 / 9.00			
SPUD DATE: 12/5/2000								FOOTAGE: 345 (ft)			24 HR ROP: 15.00			
RIG: PATTERSON # 5 5								DRILL HRS: 23.00			PROPOSED TD: 8,000 (ft)			
DRLG SUPRS:		NEXT CSG: 7.000 (in) @ 8,000 (ft)						AFE Days +/- Goal:						
HACK BLANKENSHIP		CASING						COSTS DRLG & COMP						
RIG PHONE: 435 687-2197		CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE: 903 520-0567		9.625	3,010	3,010			N	Est.	0	0	0	0	0	0
ENGR:		13.375	304	304			N	Est+OE	0	0	0	0	0	0
DALE MITCHELL								Cum	0	0	0	0	0	0
								Daily	71,496	0	0	0	6,350	77,846

CURRENT OP AT REP TIME: DRILLING 8-3/4" OH @ 4000'

PLANNED OPERATIONS: DRILL AHEAD W/ POSSIBLE BIT TRIP

## SAFETY SUMMARY

MANHRS WORKED: 218.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 13 / 13 REC. N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: USING TAIL ROPE WHEN LIFTING W/ OVERHEAD LIFTS

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	16:00	10.00	PT	002	DRILL FROM 3655' TO 3803', ROP 14 FPH
16:00	16:30	0.50	PT	009	SAFETY MEETING & RIG SERVICE
16:30	19:00	2.50	PT	002	DRILL FROM 3803' TO 3834', ROP 12 FPH
19:00	19:30	0.50	PT	012	SURVEY @ 3789' = 5-1/2 DEGREE
19:30	06:00	10.50	PT	002	DRILL FROM 3834' TO 4000', ROP 16 FPH

## MUD PROPERTIES

DAILY COST 1.607 CUM COST 4.017

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WU/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Cnl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
11:30	3,724	8.90	37	70	12/9	3/7	10.0/	4.0			10.00	1.0/0.60	200	40	/	/	WATER	/3.7

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/////										
1	2	12.250	WEATHERFOR	PDC													
1	4	8.750	Smith	F2H	517X	MJ3293	14/14/14/////	3,609.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	4	35 / 45	60 / 70		1,500		23.00	345	15.00	26.50	391.0	14.75

## BHA / HOLE CONDITIONS

BHA WT BELOW JARS		P/U WT		S/O WT		RT WT		TORQUE ON/OFF		HRS ON JARS	
(klb)		123 (klb)		115 (klb)		120 (klb)		(ft-lbf) / (ft-lbf)			
BHA LENGTH:		850.55		MIN ID:		0.000		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar											

## HYDRAULICS / PUMPS

FLOW RATE: 401.17		HSI: 0.000	IMPACT: .00		JET VEL: 0.0		AV DC:		AV DP:		ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	D-1000	6.000	10.000	115	401.17	1,500	95.0	/		/	

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
3,789	5.500	0.000	3,484.88	128.90	128.90	0.00	0.89								

## MUD MATERIAL USED

DESCRIPTION		USED	DESCRIPTION		USED
DRAYAGE		0	PLASTIC SHEETS		0
ENGINEERING SERVICE		0	POLY PLUS		5 GAL
M-I GEL		2,800 LB	SAPP		100 LB



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5      WBSE:      API: 43-015-30510      Rpt #: 15      Date: 12/20/2001

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
DEFOAM X	5 GAL	PAC REG	50 LB
MICA	500 LB	MULTISEAL	280

## PERSONNEL DATA

POB: 16

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00			

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 16

Date: 12/21/2001

**WELL INFO**

FIELD: HUNNINGTON  
SPUD DATE: 12/5/2000  
RIG: PATTERSON # 5 5  
DRLG SUPRS:  
HACK BLANKENSHIP  
RIG PHONE: 435 687-2197  
CELLPHONE: 903 520-0567  
ENGR:  
DALE MITCHELL

**ELEVATIONS**

RKB: 5,908.00 (ft)  
NEXT CSG: 7,000 (in) @ 8,000 (ft)

**DEPTH/DAYS**

DOL/DFS: 16.00 / 10.00  
MD/TVD: 4,251 (ft) / 3,945 (ft)  
24 HR ROP: 16.19  
FOOTAGE: 251 (ft)  
PROPOSED TD: 8,000 (ft)  
DRILL HRS: 15.50  
AFE Days +/- Goal:

**CASING**

CSG	MD	TVD	TOL	LO	LNR
9.625	3,010	3,010			N
13.375	304	304			N

**COSTS DRLG & COMP**

DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
29,328	0	17,555	0	3,888	50,772

CURRENT OP AT REP TIME: DRILLING W/ BIT # 5 @ 4251'

PLANNED OPERATIONS: DRILL AHEAD

**SAFETY SUMMARY**

MANHRS WORKED: 280.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 14 / 14 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: GOOD HOUSEKEEPING &amp; PROPER PPE

INCIDENT DESCRIPTION:

**OPERATION SUMMARY**

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	10:00	4.00	PT	002	DRILL FROM 4000' TO 4053', ROP 13 FPH
10:00	10:30	0.50	PT	012	SURVEY @ 4008' = 4-1/2 DEGREE, SAFETY MEETING
10:30	14:00	3.50	PT	002	DRILL FROM 4053' TO 4101', ROP 13 FPH, BIT TORQUED
14:00	14:30	0.50	PT	005	CIRCULATE, PUMP SLUG, & DROP SURVEY @ 4086'
14:30	16:30	2.00	PT	007	TOOH W/ BIT # 4, SURVEY = 4-1/4 DEGREE
16:30	18:00	1.50	PT	006	M/U BIT # 5 & TIH W/ BHA TO 800'
18:00	19:00	1.00	N1	025	REPAIR LOCK ON BLOCKS
19:00	20:00	1.00	N1	032	SLIP & CUT 110' DRILLING LINE
20:00	21:30	1.50	PT	006	TIH TO 4060'
21:30	22:00	0.50	PT	029	WASH & REAM 40' TO BOTTOM
22:00	06:00	8.00	PT	002	DRILL FROM 4101' TO 4251', ROP 18 FPH

**MUD PROPERTIES**

DAILY COST 1,459 CUM COST 5,476

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
15:00	4,101	8.90	37	70	12/8	4/14	9.0/	5.0	0.25		9.00	0.6/0.20	200	120	/	/	WATER	14.3

**BITS**

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/16/11111										
1	2	12.250	WEATHERFOR	PDC													
1	4	8.750	Smith	F2H	517X	MJ3293	14/14/14/11111	3,609.0	4,101.0	6	6	BT	A	4	4	WT	TQ
1	5	8.750	Smith	F15	517X	MG9184	15/15/15/11111	4,101.0									

**BIT OPERATIONS**

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	4	35 / 45	60 / 70	401	1,500	648	7.50	101	13.47	34.00	492.0	14.47
1	5	40 / 50	60 / 70	401	1,400	492	8.00	150	18.75	8.00	150.0	18.75

BHA # 5

BIT #

**BHA / HOLE CONDITIONS**

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	125 (klb)	120 (klb)	123 (klb)	(ft-lbf) / (ft-lbf)	

BHA LENGTH: 850.55 MIN ID: 0.000 BHA HRS SINCE LAST INSPECTION:

BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar

**HYDRAULICS / PUMPS**

FLOW RATE:	802.34	HSI:	1.913	IMPACT:	459.41	JET VEL:	248.5	AV DC:	AV DP:	ECD	
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
1	D-1000	6.000	10.000	115	401.17	1,400	95.0	/		/	

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# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5

WBSE

API: 43-015-30510

Rpt #

17

Date: 12/22/2001

**WELL INFO**

FIELD: HUNNINGTON  
SPUD DATE: 12/5/2000  
RIG: PATTERSON # 5 5  
DRLG SUPRS:  
HACK BLANKENSHIP  
RIG PHONE: 435 687-2197  
CELLPHONE: 903 520-0567  
ENGR:  
DALE MITCHELL

**ELEVATIONS**

RKB: 5.908.00 (ft)

NEXT CSG: 7.000 (in) @ 8.000 (ft)

**DEPTH/DAYS**

DOL/DFS 17.00 / 11.00

MD/TVD 4.706 (ft) / 4.402 (ft) 24 HR ROP 20.22

FOOTAGE 455 (ft) PROPOSED TD 8.000 (ft)

DRILL HRS 22.50 AFE Days +/- Goal

**CASING**

CSG	MD	TVD	TOL	LO	LNR
9.625	3.010	3.010			N
13.375	304	304			N

**COSTS DRLG & COMP**

	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
Est.	0	0	0	0	0	0
Est+OE	0	0	0	0	0	0
Cum	0	0	0	0	0	0
Daily	13.385	0	0	0	538	13.923

CURRENT OP AT REP TIME: DRILLING 8-3/4" @ 4706'

PLANNED OPERATIONS: DRILL AHEAD

**SAFETY SUMMARY**

MANHRS WORKED: 228.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 15 / 15 REC N F/A N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: MIXING CHEMICAL &amp; PROPER LIFTING TECHNIQUES

INCIDENT DESCRIPTION:

**OPERATION SUMMARY**

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	13:00	7.00	PT	002	DRILL FROM 4251' TO 4396', ROP 20 FPH
13:00	13:30	0.50	N1	009	SAFETY MEETING & RIG SERVICE
13:30	22:00	8.50	PT	002	DRILL FROM 4396' TO 4584', ROP 22 FPH
22:00	23:00	1.00	PT	012	SURVEY @ 4569' ± 1-3/4 DEGREE
23:00	06:00	7.00	PT	002	DRILL FROM 4584' TO 4706', ROP 17 FPH

**MUD PROPERTIES**

DAILY COST 850 CUM COST 6.335

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/EXL	TYPE	LG/DS%
11:00	4.368	8.90	38	70	11/8	3/8	10.4/	5.0	0.25		9.00	0.4/0.10	200	40	/	/	WATER	/4.3

**BITS**

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/16/15/11111										
1	2	12.250	WEATHERFOR	PDC													
1	5	8.750	Smith	F15	517X	MG9184	15/15/15/11111	4.101.0									

**BIT OPERATIONS**

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	5	45 / 55	65 / 75	401	1,500	492	22.50	455	20.22	30.50	605.0	19.84

**BHA # 5 BIT # BHA / HOLE CONDITIONS**

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	135 (klb)	125 (klb)	132 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 850.55	MIN ID: 0.000			BHA HRS SINCE LAST INSPECTION	

BHA DESCRIPTION 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Intergal Blade Stabilizer, 1-Drill Collar, 1-Intergal Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar

**HYDRAULICS / PUMPS**

FLOW RATE: 401.17		HSI: 1.915		IMPACT: 459.60		JET VEL: 248.6		AV DC		AV DP		ECD	
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)		
2	D-1000	6.000	10.000	115	401.17	15	95.0	/		/			

**SURVEY DATA**

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
4.569	1.750	0.000	4.263.11	179.21	179.21	0.00	0.52								

**MUD MATERIAL USED**

DESCRIPTION	USED	DESCRIPTION	USED
ENGINEERING SERVICE	0	LIGNITE	300 LB
M-I GEL	200 LB	SODA ASH	800 LB
POLY PLUS	5 GAL	PAC REG	100 LB

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**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt # 17

Date: 12/22/2001

**PERSONNEL DATA**

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER	1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC	1	2.00
PATTERSON DRLG	11	144.00	SWACO	1	6.00
PASON MUD LOGGERS	2	24.00			

**DAILY OPERATIONAL COMMENTS**

NO ACCIDENTS, SPILLS OR NEAR MISSES. SAFETY MEETING W/ ALL CREWS





# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE API: 43-015-30510 Rpt # 18 Date: 12/23/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB	5,908.00 (ft)		DOL/DFS	18.00 / 12.00
SPUD DATE: 12/5/2000				MD/TVD	4,876 (ft) / 4,570 (ft)
RIG: PATTERSON # 55				FOOTAGE	170 (ft)
DRLG SUPRS.	NEXT CSG: 7,000 (in) @ 8,000 (ft)			PROPOSED TO	8,000 (ft)
HACK BLANKENSHIP				DRILL HRS	13.00
RIG PHONE: 435 687-2197				AFE Days +/- Goal	
CELLPHONE: 903 520-0567					
ENGR.					
DALE MITCHELL					
CURRENT OP AT REP TIME	DRILLING @ 4876'				
PLANNED OPERATIONS	DRILL AHEAD W/ BIT # 6				

SAFETY SUMMARY			
MANHRS WORKED: 228.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 16 / 16	REC. N. FIA: N
GOVT INSP?			
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: TRIPPING PIPE & CHECKING ALL EQUIPMENT SNUB LINES ETC	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY						DESCRIPTION	
FROM	TO	HRS	P/NPT	CODE			
06:00	07:30	1.50	PT	002		DRILL FROM 4706' TO 4723', ROP 11 FPH	
07:30	08:00	0.50	PT	031		CHANGE S WAB # 2 PUMP	
08:00	11:00	3.00	PT	002		DRILL FROM 4723' TO 4768', ROP 15 FPH, BIT SLOWED TO 8 FT/HR	
11:00	16:30	5.50	PT	007		PUMP SLUG, DROP TOTCO & TOOH W/ BIT # 5, SURVEY @ 4731' = 2-1/4 DEGREE	
16:30	21:30	5.00	PT	006		TIH W/ BIT # 6, WASH & REAM TO 40' TO BOTTOM, NO FILL, MIX & PUMP HIGH VIS SWEEP & CLEAN BOTTOM	
21:30	06:00	8.50	PT	002		DRILL FROM 4768' TO 4876', ROP 12 FPH	

MUD PROPERTIES											DAILY COST				1,335		CUM COST				7,670	
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTP	SOLIDS	SAND%	CEC	pH	Pm/Pl	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%				
16.00	4,756	9.10	35	75	8/8	3/7	12.0/	6.0	0.25		8.50	0.5/0.10	300	120	/	/	WATER	/5.8				

BITS														JETS OR TFA													
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #								DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R				
2	1RR	12.250	Smith	F-2										16/16/16/11111													
1	2	12.250	WEATHERFOR	PDC																							
1	5	8.750	Smith	F15	517X	MG9184								4,101.0	4,768.0	7	7	BT	A	5	1	BT	PR				
1	6	8.750	Smith	F2H	517X	MJ3292								4,768.0													

BIT OPERATIONS																
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP				
1	5	45 / 55	65 / 75	401	1,500	492	4.50	62	13.78	35.00	667.0	19.06				
1	6	45 / 55	60 / 70	401	1,550	503	8.50	108	12.71	8.50	108.0	12.71				

BHA # 6		BIT # 6		BHA / HOLE CONDITIONS			
BHA WT BELOW JARS		P/U WT		S/O WT		RT WT	
TORQUE ON/OFF		HRS ON JARS					
BHA LENGTH: 850.55		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar							

HYDRAULICS / PUMPS																	
FLOW RATE	401.17	HSI	1.956	IMPACT	469.74	JET VEL	248.51	AV DC		AV DP		ECO					
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)						
2	D-1000	6.000	10.000	115	401.17	1,550	95.0	/	/	/	/	/	/	/	/	/	/

SURVEY DATA																	
MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG		
4,731	2.250	0.000	4,425.02	184.87	184.87	0.00	0.31										



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt # 18

Date: 12/23/2001

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
CAUSTIC SODA	50 LB	POLY PLUS	15 GAL
ENGINEERING SERVICE	0	LIGNITE	600 LB
M-I BAR BAGGED	1,400 LB	SODA ASH	400 LB
M-I GEL	2,000 LB	PAC REG	150 LB
PLASTIC SHEETS	0	MULTISEAL	160

## PERSONNEL DATA

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER	1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC	1	2.00
PATTERSON DRLG	11	144.00	SWACO	1	8.00
PASON MUD LOGGERS	2	24.00			

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5		WBSE:		API: 43-015-30510		Rpt #: 19		Date: 12/24/2001													
<b>WELL INFO</b>		<b>ELEVATIONS</b>		<b>DEPTH/DAYS</b>																	
FIELD: HUNNINGTON		RKB: 5,908.00 (ft)		MD/TVD: 5,146 (ft) / 4,840 (ft)		DOL/DFS: 19.00 / 13.00															
SPUD DATE: 12/5/2000				FOOTAGE: 270 (ft)		24 HR ROP: 11.49															
RIG: PATTERSON # 5 5		NEXT CSG: 7,000 (in) @ 8,000 (ft)		DRILL HRS: 23.50		PROPOSED TO: 8,000 (ft)															
DRLG SUPRS:						AFE Days +/- Goal:															
HACK BLANKENSHIP																					
RIG PHONE: 435 687-2197																					
CELLPHONE: 903 520-0567																					
ENGR: DALE MITCHELL																					
		<b>CASING</b>				<b>COSTS DRLG &amp; COMP</b>															
		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL								
		9.625	3,010	3,010			N	Est	0	0	0	0	0								
		13.375	304	304			N	Est+OE	0	0	0	0	0								
								Cum	0	0	0	0	0								
								Daily	15,135	0	0	714	15,849								
CURRENT OP AT REP TIME:		DRILLING 8-3/4" HOLE @ 5146'																			
PLANNED OPERATIONS:		DRILL AHEAD & WIRELINE SURVEY																			
<b>SAFETY SUMMARY</b>																					
MANHRS WORKED: 221.00		SAFETY MTGS ATTENDED: 1		DAYS SINCE LAST LTA RIG/OPER: 17 / 17		REC: N		F/A: N		GOVT INSP?											
INCIDENT? NO		INCIDENT TYPE:		SAFETY COMMENTS: USE LOCKOUTS WHEN WORKING ON EQUIPMENT																	
INCIDENT DESCRIPTION:																					
<b>OPERATION SUMMARY</b>																					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION																
06:00	16:00	10.00	PT	002	DRILL FROM 4876' TO 4989', ROP 11 FPH																
16:00	16:30	0.50	PT	012	SURVEY & SAFETY MEETING																
16:30	06:00	13.50	PT	002	DRILL FROM 4876' TO 5146', ROP 11 FPH																
<b>MUD PROPERTIES</b>																					
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pt	Chi	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%			
13:00	4,756	9.20	38	75	9/9	4/10	8.8	6.0	0.25		8.00	0.3/0.10	200	280	/	/	WATER	/6.5			
<b>BITS</b>														DAILY COST		2,222		CUM COST		9,893	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA		DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R			
2	1RR	12.250	Smith	F-2			16/16/16/11111														
1	2	12.250	WEATHERFOR	PDC																	
1	6	8.750	Smith	F2H	517X	MJ3292	15/15/15/11111		4,768.0												
<b>BIT OPERATIONS</b>														CUM HRS		32.00		CUM DEPTH		378.0	
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP									
1	6	45 / 55	60 / 70	401	1,600		23.50	270	11.49	32.00	378.0	11.81									
<b>BHA / HOLE CONDITIONS</b>														TORQUE ON/OFF		(ft-lbf) / (ft-lbf)		HRS ON JARS			
BHA # 6		BIT # 6		BHA WT BELOW JARS		P/U WT		S/O WT		RT WT		BHA HRS SINCE LAST INSPECTION:									
				(klb)		148 (klb)		130 (klb)		138 (klb)											
BHA LENGTH:		850.55		MIN ID:		0.000															
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integrnl Blade Stabilizer, 1-Drill Collar, 1-Integrnl Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar																					
<b>HYDRAULICS / PUMPS</b>														AV DP:		ECD					
FLOW RATE:	401.17	HSI:	0.000	IMPACT:	475.00	JET VEL:	248.6	AV DC:		AV DP:		ECD									
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)										
2	D-1000	6.000	10.000	115	401.17	1,600	95.0	/	/	/	/										
<b>MUD MATERIAL USED</b>														USED		DESCRIPTION		USED			
CAUSTIC SODA				50 LB		PLASTIC SHEETS				0											
ORAYAGE				0		POLY PLUS				20 GAL											
ENGINEERING SERVICE				0		SODA ASH				600 LB											
M-I GEL				2,600 LB		PAC REG				250 LB											
<b>PERSONNEL DATA</b>														POB: 18							
COMPANY		#		MAN HRS		COMPANY		#		MAN HRS											
CHEVRON TEXACO		1		24.00		PATTERSON DRLG		11		144.00											
CALLAWAY SAFETY		1		24.00		PASON MUD LOGGERS		2		24.00											

CONFIDENTIAL



**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5      WBSE:      API: 43-015-30510      Rpt #: 19      Date: 12/24/2001

**PERSONNEL DATA**

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
M-I MUD ENGINEER	1	2.00	J-WEST HOT SHOT	1	1.00
NIELSON CONSTRUCTION INC	1	2.00			

**DAILY OPERATIONAL COMMENTS**

NO ACCIDENTS, SPILLS OR NEAR MISSES. SAFETY MEETING W/ ALL CREWS  
CENTRIFUGE DOWN WAITING ON RESET SWITCH

CONFIDENTIAL



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 20 Date: 12/25/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)	MD/TVD 5,350 (ft) / 5,043 (ft)	DOU/DFS 20.00 / 14.00		
SPUD DATE: 12/5/2000		FOOTAGE 204 (ft)	24 HR ROP 11.33		
RIG: PATTERSON # 5 5		DRILL HRS: 18.00	PROPOSED TD 8,000 (ft)		
ORLG SUPRS:	NEXT CSG: 7,000 (in) @ 8,000 (ft)	AFE Days +/- Goal:			
HACK BLANKENSHIP					
RIG PHONE: 435 687-2197					
CELLPHONE: 903 520-0587					
ENGR: DALE MITCHELL					

CASING						COSTS DRLG & COMP					
CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3,010	3,010			N	Est.	0	0	0	0	0
13.375	304	304			N	Est+OE	0	0	0	0	0
						Cum	0	0	0	0	0
						Daily	20.622	0	0	1,262	21.884

CURRENT OP AT REP TIME: DRILLING @ 5350'

PLANNED OPERATIONS: DRILL AHEAD W/ POSSIBLE BIT TRIP

SAFETY SUMMARY			
MANHRS WORKED: 249.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 18 / 18	REC. N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: COMMUNICATIONS BETWEEN CREWS & CREW MEMBERS	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	07:00	1.00	PT	002	SWITCH LIGHT PLANTS & DRILL FROM 5146' TO 5150'
07:00	08:00	1.00	N1	031	CHANGE FILTERS # 2 LIGHT PLANT, # 1 DOWN W/ GENERATOR PROBLEM
08:00	08:30	0.50	PT	002	DRILL FROM 5150' TO 5155', # 2 GENERATOR DOWN
08:30	10:00	1.50	N1	031	CIRCULATE & CHANGE OUT FILTERS # 2 GENERATOR TWICE
10:00	16:00	6.00	PT	002	DRILL FROM 5155' TO 5232', ROP 12 FPH
16:00	17:30	1.50	N1	031	CHANGE OUT 2 SWABS # 2 PUMP, # 1 PUMP FROZE UP
17:30	18:00	0.50	PT	002	DRILL FROM 5232' TO 5239', ROP 14 FPH
18:00	19:30	1.50	PT	031	REPLACE # 1 GENERATOR SET W/ RENTAL UNIT
19:30	02:00	6.50	PT	002	DRILL FROM 5239' TO 5303', ROP 9 FPH
02:00	02:30	0.50	PT	012	SURVEY @ 5258' ± 1/4 DEGREE
02:30	06:00	3.50	PT	002	DRILL FROM 5303' TO 5350', ROP 13 FPH

MUD PROPERTIES											DAILY COST		1,357	CUM COST		9,027		
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS SAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%	
13.00	5,203	9.20	35	75	9/6	3/6	10.0/	6.0	0.25		9.50	1.2/0.50	200	120	/	/	WATER	/6.5

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			18/18/18/////										
1	2	12.250	WEATHERFOR	PDC													
1	6	8.750	Smith	F2H	517X	MJ3292	15/15/15/////	4,768.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	6	45 / 55	60 / 70	401	1,820	509	18.00	204	11.33	50.00	582.0	11.64

BHA # 6		BIT # 6		BHA / HOLE CONDITIONS			
BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF		HRS ON JARS	
(klb)	148 (klb)	136 (klb)	139 (klb)	(ft-lbf) / (ft-lbf)			
BHA LENGTH: 850.55	MIN ID: 0.000	BHA HRS SINCE LAST INSPECTION:					
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar							

HYDRAULICS / PUMPS												
FLOW RATE:		401.17	HSI:	1.980	IMPACT:	475.09	JET VEL:	248.6	AV DC:		AV DP:	ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
2	D-1000	6.000	10.000	115	401.17	1,820	95.0	/		/		

CONFIDENTIAL



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5      WBSE      API: 43-015-30510      Rpt #: 20      Date: 12/25/2001

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
5.258	0.250	0.000	4.951.88	196.36	196.36	0.00	0.38								

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
CAUSTIC SODA	100 LB	POLY PLUS	15 GAL
ENGINEERING SERVICE	0	LIGNITE	500 LB
M-I GEL	1,100 LB	SODA ASH	1,000 LB
PLASTIC SHEETS	0	PAC REG	150 LB

## PERSONNEL DATA

POB: 25

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	RED ROCK PET	1	3.00
CALLAWAY SAFETY	1	24.00	RW JONES TRUCKING CO	1	1.00
PATTERSON DRLG	11	144.00	GARDINERS ROUSTABOUT	2	6.00
PASON MUD LOGGERS	2	24.00	SWACO	1	7.00
M-I MUD ENGINEER	1	2.00	EL PASO ELECTIRCIAN	1	10.00
NIELSON CONSTRUCTION INC	1	2.00	J-WEST TRUCKING	2	2.00

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ RIG CREWS & SERVICE CO.  
REPLACE # 1 GENERATOR



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 21 Date: 12/26/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)	MD/TVD: 5,625 (ft) / 5,319 (ft)	DOL/DFS: 21.00 / 15.00		
SPUD DATE: 12/5/2000		FOOTAGE: 275 (ft)	24 HR ROP: 11.70		
RIG: PATTERSON # 5	NEXT CSG: 7,000 (in) @ 8,000 (ft)	DRILL HRS: 23.50	PROPOSED TD: 8,000 (ft)		
ORLG SUPRS:		AFE Days +/- Goal:			
HACK BLANKENSHIP					
RIG PHONE: 435 687-2197					
CELLPHONE: 903 520-0587					
ENGR: DALE MITCHELL					

CASING						COSTS DRLG & COMP					
CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3,010	3,010			N	Est	0	0	0	0	0
13.375	304	304			N	Est+OE	0	0	0	0	0
						Cum	0	0	0	0	0
						Daily	13,916	0	0	592	14,508

CURRENT OP AT REP TIME: DRILLING @ 5625'  
PLANNED OPERATIONS: DRILL AHEAD W/ POSSIBLE BIT TRIP

SAFETY SUMMARY			
MANHRS WORKED: 221.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 19 / 19	REC. N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: MAKING CONNECTIONS & PICKING UP DRILL PIPE	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	03:00	21.00	PT	002	DRILL FROM 5350' TO 5596', ROP 11 FPH, WOB 55, RPM70
03:00	03:30	0.50	N1	009	RIG SERVICE & SAFETY MEETING
03:30	06:00	2.50	PT	002	DRILL FROM 5596' TO 5625', ROP 11 FPH

MUD PROPERTIES											DAILY COST		1,390		CUM COST		10,418	
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
:		9.20	36		9/8	3/8	9.0/	8.0	0.25		10.00	1.2/0.50	200	120	/	/	WATER	/6.5

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			18/18/16/11111										
1	2	12.250	WEATHERFOR	POC													
1	6	8.750	Smith	F2H	517X	MJ3292	15/15/15/11111	4,768.0									

BIT OPERATIONS											
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH
1	6	50 / 55	65 / 70	401	1,850	509	23.50	275	11.70	73.50	857.0

BHA # 6		BIT # 6		BHA / HOLE CONDITIONS	
BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(kib)	155 (kib)	140 (kib)	145 (kib)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 850.55	MIN ID: 0.000	BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar					

HYDRAULICS / PUMPS											
FLOW RATE:	401.17	HSI:	1.980	IMPACT:	475.09	JET VEL:	248.8	AV DC:		AV DP:	ECD
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)
2	D-1000	6.000	10.000	115	401.17	1,850	95.0	/		/	

MUD MATERIAL USED			
DESCRIPTION	USED	DESCRIPTION	USED
CAUSTIC SODA	600 LB	LIGNITE	500 LB
ENGINEERING SERVICE	0	SODA ASH	1,000 LB
M-I GEL	2,000 LB	PAC REG	100 LB
POLY PLUS	10 GAL		

PERSONNEL DATA					POB: 18
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PATTERSON ORLG	11	144.00
CALLAWAY SAFETY	1	24.00	PASON MUD LOGGERS	2	24.00



**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5      WBSE:      API: 43-015-30510      Rpt #: 21      Date: 12/26/2001

**PERSONNEL DATA**

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
M-I MUD ENGINEER	1	2.00	SMITH SERVICES	1	1.00
NIELSON CONSTRUCTION INC	1	2.00			

**DAILY OPERATIONAL COMMENTS**

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETINGS W/ RIG CREWS & SERVICE CO





# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD #5 WBSE: API: 43-015-30510 Rpt #: 22 Date: 12/27/2001

WELL INFO		ELEVATIONS						DEPTH/DAYS														
FIELD: HUNNINGTON		RKB:		5,908.00 (ft)				MD/TVD:			5.785 (ft) / 5,478 (ft)			DOL/DFS:			22.00 / 16.00					
SPUD DATE: 12/5/2000								FOOTAGE:			160 (ft)			24 HR ROP:			11.43					
RIG: PATTERSON # 5 5								NEXT CSG: 7.000 (in) @ 8,000 (ft)			DRILL HRS:			14.00			PROPOSED TD:			8,000 (ft)		
DRLG SUPRS:														AFE Days +/- Goal:								
HACK BLANKENSHIP																						
RIG PHONE: 435 687-2197																						
CELLPHONE: 903 520-0567																						
ENGR: DALE MITCHELL																						

CURRENT OP AT REP TIME: DRILLING @ 5785' W/ BIT # 7

PLANNED OPERATIONS: DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 220.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 20 / 20 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: TRIPPING PIPE &amp; HANDLING BHA

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	10:00	4.00	PT	002	DRILL FROM 5625' TO 5678', ROP 13 FPH
10:00	10:30	0.50	N1	009	RIG SERVICE & SAFETY MEETING
10:30	14:00	3.50	PT	002	DRILL FROM 5678' TO 5711', ROP 9 FPH
14:00	19:00	5.00	PT	007	PUMP SLUG, DROP TOTCO. & TOOH W/ BIT # 6, NO EXCESS DRAG, MISS FIRE W/ SURVEY
19:00	22:00	3.00	PT	006	TIH W/ BIT # 7
22:00	22:30	0.50	PT	029	WASH & REAM FROM 5666' TO 5711' FOR SAFETY, 6' FILL
22:30	01:30	3.00	PT	002	DRILL FROM 5711' TO 5741', ROP 10 FPH
01:30	02:00	0.50	PT	012	SURVEY @ 5696', OFF 7 DEGREE CHART
02:00	02:30	0.50	PT	002	DRILL FROM 5741' TO 5745'
02:30	03:00	0.50	PT	012	SURVEY @ 5700' = 9 DEGREE
03:00	06:00	3.00	PT	002	DRILL FROM 5745' TO 5785', ROP 13 FPH

## MUD PROPERTIES

DAILY COST 2,020 CUM COST 14,860

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WU/HTP	SOLIDS	SAND%	CEC	pH	Pm/PI	Ch	Ca	Oil%/OW	ES/EX	TYPE	LGS/DS%
14:00	5,711	9.20	37	80	10/10	8/24	11.0	6.5	0.50		8.00	0.4/0.10	200	720	/	/	WATER	/6.5

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			16/18/18/11111										
1	2	12.250	WEATHERFOR	PDC													
1	6	8.750	Smith	F2H	517X	MJ3292	15/15/15/11111	4,768.0	5,711.0	5	6	BT	H	5	1	WT	PR
1	7	8.750	Smith	ER6079	527X	MK3185	18/18/18/11111	5,711.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	6	50 / 55	65 / 70	401	1,650	508	7.50	88	11.47	81.00	943.0	11.64
1	7	40 / 50	60 / 70	401	1,600	393	6.50	74	11.38	6.50	74.0	11.38

## BHA #7 BIT # BHA / HOLE CONDITIONS

BHA WT BELOW JARS		P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)		165 (klb)	135 (klb)	148 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 850.55		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:		

BHA DESCRIPTION 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar

## HYDRAULICS / PUMPS

FLOW RATE: 401.17		HSI: 1.527		IMPACT: 417.38		JET VEL: 218.4		AV DC:		AV DP:		ECD	
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
2	D-1000		6.000	10.000	115	401.17	1,600	95.0	/		/		

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# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 22 Date: 12/27/2001

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
5,700	9.000	0.000	5,392.00	231.97	231.97	0.00	1.98								

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
ENGINEERING SERVICE	0	DEFOAM X	5 GAL
M-I BAR BAGGED	2,600 LB	LIGNITE	300 LB
M-I GEL	1,800 LB	SODA ASH	1,950 LB
PLASTIC SHEETS	0	PAC REG	200 LB
POLY PLUS	15 GAL		

## PERSONNEL DATA

POB: 17

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00	NIELSON CONSTRUCTION INC	1	2.00

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ RIG CREWS & SERVICE CO

## Comments

NEW TO 7425'



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5		WBSE		API: 43-015-30510		Rpt #: 23		Date: 12/28/2001					
<b>WELL INFO</b>		<b>ELEVATIONS</b>		<b>DEPTH/DAYS</b>									
FIELD: HUNNINGTON		RKB: 5.908.00 (ft)		MD/TVD: 6.180 (ft) / 5.870 (ft)		DOL/DFS: 23.00 / 17.00							
SPUD DATE: 12/5/2000				FOOTAGE: 395 (ft)		24 HR ROP: 17.95							
RIG: PATTERSON # 5 5		NEXT CSG: 7.000 (in) @ 8.000 (ft)		DRILL HRS: 22.00		PROPOSED TD: 8.000 (ft)							
DRLG SUPRS:						AFE Days +/- Goal:							
HACK BLANKENSHIP		<b>CASING</b>		<b>COSTS DRLG &amp; COMP</b>									
RIG PHONE: 435 687-2197		CSG	MD	TVD	TOL	LO	LNR	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE: 903 520-0567		9.625	3.010	3.010			N	Est	0	0	0	0	0
ENGR:		13.375	304	304			N	Est+OE	0	0	0	0	0
DALE MITCHELL								Cum	0	0	0	0	0
								Daily	15.113	0	0	0	15.825
CURRENT OP AT REP TIME: DRILLING @ 6180'													
PLANNED OPERATIONS: DRILL AHEAD W/ 8-3/4" OH													

<b>SAFETY SUMMARY</b>			
MANHRS WORKED: 221.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 21 / 21	REC: N F/A: N GOVT INSP? 7
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: GOOD HOUSEKEEPING ON RIG & LOCATION	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY							DESCRIPTION	
FROM	TO	HRS	P/NPT	CODE				
06:00	13:00	7.00	PT	002				DRILL FROM 5785' TO 5866', ROP 11 FPH, WOB 50, RPM 65
13:00	14:00	1.00	N6	012				SURVEY @ 5822' = MISS FIRE, SAFETY MEETING
14:00	16:30	2.50	PT	002				DRILL FROM 5866' TO 5897', ROP 12 FPH
16:30	17:00	0.50	PT	012				SURVEY @ 5852' = 8 DEGREE
17:00	02:30	9.50	PT	002				DRILL FROM 5897' TO 6115', ROP 22 FPH, WOB 55, RPM 75
02:30	03:00	0.50	PT	002				SURVEY @ 6070' = 5-3/4 DEGREE
03:00	06:00	3.00	PT	002				DRILL FROM 6115' TO 6180', ROP 21 FPH

MUD PROPERTIES												DAILY COST		2.587		CUM COST		17.248	
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/PI	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%	
14:15	5.874	9.20	36	80	9/7	4/7	10.0/	6.0	0.25		10.00	1.4/0.60	200	180	/	/	WATER	/6.5	

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2			18/16/18/////										
1	2	12.250	WEATHERFOR	PDC													
1	7	8.750	Smith	ER6079	527X	MK3185	18/16/18/////	5,711.0									

BIT OPERATIONS														24HR FTG		24HR ROP		CUM HRS		CUM DEPTH		CUM ROP	
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS																
1	7	45 / 55	65 / 75	401	1,830	393	22.00							395		17.95		28.50		489.0		18.46	

<b>BHA # 7</b>		<b>BIT #</b>		<b>BHA / HOLE CONDITIONS</b>											
BHA WT BELOW JARS		P/U WT		S/O WT		RT WT		TORQUE ON/OFF				HRS ON JARS			
(klb)		170 (klb)		135 (klb)		150 (klb)		(ft-lbf) / (ft-lbf)							
BHA LENGTH: 850.55		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:											
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar															

HYDRAULICS / PUMPS													
FLOW RATE:		401.17	HSI:	1.527	IMPACT:	417.38	JET VEL:	218.4	AV DC:		AV DP:		ECD
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
2	D-1000		6.000	10.000	115	401.17	1,630	95.0	/		/		

SURVEY DATA															
MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
5.852	8.000	0.000	5,542.32	254.43	254.43	0.00	0.68	6.070	5.750	0.000	5,758.74	280.53	280.53	0.00	1.03

MUD MATERIAL USED														DESCRIPTION	USED	DESCRIPTION	USED
CAUSTIC SODA					200 LB					ENGINEERING SERVICE					0		



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5

WBSE:

API: 43-015-30510

Rpt #: 23

Date: 12/28/2001

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
M-I GEL	2,800 LB	DESCO CF	375 LB
PLASTIC SHEETS	0	SODA ASH	2,450 LB
POLY PLUS	5 GAL	PAC REG	200 LB
LIGNITE	300 LB		

## PERSONNEL DATA

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER	1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC	1	2.00
PATTERSON DRLG	11	144.00	GARDINER CONSTRUCTION	1	1.00
PASON MUD LOGGERS	2	24.00			

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS  
TOPPED NAVAJO FORMATION @ 5997', 500' HIGHER THAN PROGNOSIS

## Comments

NEW TO 7425'



# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt #: 24 Date: 12/29/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON		RKB: 5,908.00 (ft)		DOU/DFS: 24 00 / 18.00	
SPUD DATE: 12/5/2000				24 HR ROP: 24.29	
RIG: PATTERSON # 5 5				FOOTAGE: 255 (ft)	
DRLG SUPRS:		NEXT CSG: 7,000 (in) @ 8,000 (ft)		PROPOSED TD: 8,000 (ft)	
HACK BLANKENSHIP				DRILL HRS: 10.50	
RIG PHONE: 435 687-2197				AFE Days +/- Goal:	
CELLPHONE: 903 520-0567					
ENGR: DALE MITCHELL					

CURRENT OP AT REP TIME: DRILLING @ 6435'

PLANNED OPERATIONS: DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 227.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 22 / 22 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: USE CAUTION WHEN USING STEAM FOR THAWING FROZEN LINES

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
08:00	08:30	2.50	PT	002	DRILL FROM 6180' TO 6278', ROP 39 FPH, WOB 55, RPM 70
08:30	10:00	1.50	N1	031	WORK ON MUD PUMPS, #1, POP OFF VALVE & #2, SUCTION VALVES
10:00	11:00	1.00	PT	002	DRILL FROM 6278' TO 6313', ROP 35 FPH
11:00	11:30	0.50	N1	031	CHECK PUMPS, AIRED UP
11:30	14:30	3.00	PT	002	DRILL FROM 6313' TO 6382', ROP 23 FPH, ROP DROPPED TO 8 FPH
14:30	20:30	6.00	PT	005	MIX & PUMP SLUG, DROP TOTCO & TOOH W/ BIT # 7, SURVEY 4 DEGREE
20:30	22:00	1.50	PT	006	TIH W/ BIT # 8, & BHA
22:00	22:30	0.50	N1	031	ADJUST DRAWWORKS BRAKE
22:30	00:30	2.00	PT	006	FINISH TIH TO 6311'
00:30	02:00	1.50	PT	029	WASH & REAM F/6311' TO 6380', MIX & PUMP HI-VIS SWEEP
02:00	08:00	4.00	PT	002	DRILL FROM 6382' TO 6435, ROP 13 FPH, WOB 40, RPM 60

## MUD PROPERTIES

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	Ch	Ca	Oil%/OW	ES/ExL	TYPE	LGS/OS%
13:00	6,385	9.20	35	80	10/6	3/8	9.6/	6.0	1.25		10.00	1.2/0.40	200	160	/	/	WATER	/6.5

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
2	1RR	12.250	Smith	F-2				16/16/16/11111									
1	2	12.250	WEATHERFOR	PDC													
1	7	8.750	Smith	ER8079	527X	MK3185		5,711.0	6,382.0	7	8	BC	A	4	4	BT	PR
1	8	8.750	Smith	ER8079	527X	MK3187		6,382.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	7	50 / 55	85 / 75	401	1,670	393	6.50	202	31.08	35.00	671.0	19.17
1	8	/	/	401	1,670			53		4.00	106.0	26.50

BHA # 8	BIT #	BHA / HOLE CONDITIONS	
BHA WT BELOW JARS		P/U WT	S/O WT
(klb)		185 (klb)	135 (klb)
BHA LENGTH: 850.55		MIN ID: 0.000	RT WT 155 (klb)
		TORQUE ON/OFF (ft-lbf) / (ft-lbf)	
		HRS ON JARS	
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integril Blade Stabilizer, 1-Drill Collar, 1-Integril Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar		BHA HRS SINCE LAST INSPECTION	

## HYDRAULICS / PUMPS

FLOW RATE:		401.17	HSI:		0.000		IMPACT:		00	JET VEL:		0.0	AV DC:		AV DP:		ECD	
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)						
2	D-1000		8.000	10.000	115	401.17	1,670	95.0	/		/							



# CHEVRON TEXACO MORNING REPORT

Page 2 of 2

Well Name: SWD # 5 WBSE: API: 43-015-30510 Rpt # 24 Date: 12/29/2001

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W CUM DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM E/W CUM DOGLEG
6.337	4.000	0.000	6,024.77	303.22	303.22 0.00 0.66						

## MUD MATERIAL USED

DESCRIPTION	USED	DESCRIPTION	USED
DRAYAGE	0	LIGNITE	400 LB
M-I GEL	5,100 LB	SAWDUST	150 LB
PLASTIC SHEETS	0	DESCO CF	100 LB
POLY PLUS	35 GAL	SODA ASH	500 LB
DEFOAM X	15 GAL	PAC REG	250 LB

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER	1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC	1	2.00
PATTERSON DRLG	11	144.00	RED ROCK PET	1	3.00
PASON MUD LOGGERS	2	24.00	GARDINER CONSTRUCTION	2	4.00

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ CREWS



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5

WBSE: DD01CTA3VF CAP DRILL API: 43-015-30510

Rpt #: 25 Date: 12/30/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)			MD/TVD: 6,750 (ft) / 6,437 (ft)	DOU/DFS: 25.00 / 19.00
SPUD DATE: 12/5/2000				FOOTAGE: 315 (ft)	24 HR ROP: 13.40
RIG: PATTERSON # 55				DRILL HRS: 23.50	PROPOSED TD: 8,000 (ft)
DRLG SUPRS:	NEXT CSG: 7,000 (in) @ 8,000 (ft)			AFE Days +/- Goal:	
HACK BLANKENSHIP					
RIG PHONE: 435 687-2197					
CELLPHONE: 903 520-0567					
ENGR: DALE MITCHELL					

CASING						COSTS DRLG & COMP						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.825	3,010	3,010			N	1,097,000	1,097,000	61,000	239,000	204,000	0	1,601,000
13.375	304	304			N	1,097,000	1,097,000	61,000	239,000	204,000	0	1,601,000
						556,874	556,874	5,566	81,099	35,637	41,621	720,798
						Daily	15,000	0	0	0	0	15,000

CURRENT OP AT REP TIME: DRILLING @ 6750'

PLANNED OPERATIONS: DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 220.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 23 / 23 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: KEEPING WALKWAYS &amp; STAIRS FREE OF ICE

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	17:00	11.00	PT	002	DRILL FROM 6435' TO 6585', ROP 13 FPH, WOB 50-55, RPM 55-60
17:00	17:30	0.50	N1	009	RIG SERVICE & SAFETY MEETING
17:30	06:00	12.50	PT	002	DRILL FROM 6585' TO 6750', ROP 13 FPH

## MUD PROPERTIES

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pt	Chl	Ca	Oil%/OW	ES/EXL	TYPE	LGS/DS%
13:00	6,385	9.20	35	80	10/6	3/6	9.6/	6.0	1.25		10.00	1.2/0.40	200	160	/	/	WATER	/8.5

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	8	8.750	Smith	ER6079	527X	MK3187	16/16/18/11111	6,382.0	6,876.0	8	8	BT	A	7	8	BT	TO

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	8	0/0	55/60	401	1,870	393	23.50	315	13.40	27.50	421.0	15.31

## BHA #8 BIT # BHA / HOLE CONDITIONS

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	0 (klb)	0 (klb)	0 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 850.55	MIN ID: 0.000	BHA HRS SINCE LAST INSPECTION:			

BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar

## HYDRAULICS / PUMPS

FLOW RATE: 401.17		HSI: 1.527		IMPACT: 417.38		JET VEL: 218.4		AV DC:		AV DP:		ECD	
#	PUMP	LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)		
2	D-1000	6.000	10.000	115	401.17	1.870	95.0	/		/			

## PERSONNEL DATA

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00	NIELSON CONSTRUCTION INC	1	2.00

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES. SAFETY MEETING W/ CREWS



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: DD01CTA3VF CAP DRILL API: 43-015-30510 Rpt #: 26 Date: 12/31/2001

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)			DOL/DFS: 26.00 / 20.00	
SPUD DATE: 12/5/2000				24 HR ROP: 8.40	
RIG: PATTERSON # 5 5				FOOTAGE: 126 (ft)	
ORLG SUPRS:	NEXT CSG: 7.000 (in) @ 8.000 (ft)			PROPOSED TD: 8,000 (ft)	
HACK BLANKENSHIP				DRILL HRS: 15.00	
RIG PHONE: 435 687-2197				AFE Days +/- Goal:	
CELLPHONE: 903 520-0567					
ENGR: DALE MITCHELL					

COSTS DRLG & COMP					
CSG	MD	TVD	TOL	LO	LNR
9.625	3.010	3.010			N
13.375	304	304			N

	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
Est.	1,097,000	81,000	239,000	204,000	0	1,601,000
Est+OE	1,097,000	81,000	239,000	204,000	0	1,601,000
Cum	578,630	5,566	81,099	35,637	41,621	742,554
Daily	21,756	0	0	0	0	21,756

CURRENT OP AT REP TIME: TIH W/ BIT # 9  
PLANNED OPERATIONS: DRILL AHEAD W/ 8-3/4" BIT

## SAFETY SUMMARY

MANHRS WORKED: 220.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 24 / 24 REC. N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: GOOD HOUSE KEEPING WHILE TRIPPING PIPE &amp; DRILLING

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	15:00	9.00	PT	002	DRILL FROM 6750' TO 6826', ROP 8 FPH
15:00	16:00	1.00	PT	012	SURVEY @ 6781' = 2 DEGREE, RIG SERVICE, & SAFETY MEETING
16:00	22:00	6.00	PT	002	DRILL FROM 6826' TO 6876', ROP 8 FPH
22:00	02:30	4.50	PT	007	PUMP SLUG, DROP TOTCO, & TOOH W/ BIT # 8
02:30	06:00	3.50	PT	008	TIH W/ BIT # 9, MISS FIRE ON SURVEY

## MUD PROPERTIES

DAILY COST 3,170 CUM COST 25,225

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	BAND%	CEC	pH	Pm/Pf	Chl	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
13:00	6,385	9.20	35	80	10/8	3/8	9.6/	6.0	1.25		10.00	1.2/0.40	200	160	/	/	WATER	/8.5

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	8	8.750	Smith	ER6079	527X	MK3187	16/16/16/11111	6,382.0	6,876.0	8	8	BT	A	7	8	BT	TO

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	8	0 / 0	55 / 65	401	1,870	393	15.00	128	8.40	42.50	547.0	12.87

BHA # 8	BIT #	BHA / HOLE CONDITIONS
BHA WT BELOW JARS	P/U WT	S/O WT
(klb)	0 (klb)	0 (klb)
BHA LENGTH: 850.55	MIN ID: 0.000	RT WT
		0 (klb)
		TORQUE ON/OFF
		(ft-lbf) / (ft-lbf)
		HRS ON JARS
		BHA HRS SINCE LAST INSPECTION:

BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integrat Blade Stabilizer, 1-Drill Collar, 1-Integrat Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar

## HYDRAULICS / PUMPS

FLOW RATE: 401.17		HSI: 1.527		IMPACT: 417.38		JET VEL: 218.4		AV DC:		AV DP:		ECD	
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
2	D-1000		6.000	10.000	115	401.17	1,650	95.0	/		/		

## SURVEY DATA

MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CUM	E/W CUM	DOGLEG
6,781	2.000	0.000	6,468.14	328.45	328.45	0.00	0.45								

## PERSONNEL DATA

POB: 17

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00	NIELSON CONSTRUCTION INC	1	2.00

## DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W CREWS

PRE-MIX LCM @ 6780' TO 3 TO 5 %

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# CHEVRON TEXACO MORNING REPORT

Page 1 of 2

Well Name: SWD # 5 WBSE: DD01CTA3VF CAP DRILL API: 43-015-30510 Rpt #: 27 Date: 1/1/2002

WELL INFO		ELEVATIONS						DEPTH/DAYS								
FIELD: HUNNINGTON		RKB:		5.908.00 (ft)				MD/TVD			7.000 (ft) / 6.468 (ft)		DOL/DFS:		27 00 / 21 00	
SPUD DATE: 12/5/2000								FOOTAGE:			124 (ft)		24 HR ROP:		8.00	
RIG: PATTERSON # 5 5								DRILL HRS:			15.50		PROPOSED TD:		8.000 (ft)	
DRLG SUPRS:		NEXT CSG:		7.000 (in) @ 8,000 (ft)				AFE Days +/- Goal:								
HACK BLANKENSHIP		CASING						COSTS DRLG & COMP								
RIG PHONE: 435 687-2197		CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL		
CELLPHONE: 903 520-0587		9.625	3.010	3.010			N	Est.	1,097,000	61,000	239,000	204,000	0	1,601,000		
ENGR:		13.375	304	304			N	Est+OE	1,097,000	61,000	239,000	204,000	0	1,601,000		
DALE MITCHELL								Cum	593,823	5,566	81,099	35,637	41,621	757,747		
								Daily	15,193	0	0	0	0	15,193		

CURRENT OP AT REP TIME: TIH W/ BIT # 9  
PLANNED OPERATIONS: TIH W/ BIT # 9 & DRILL AHEAD

## SAFETY SUMMARY

MANHRS WORKED: 222.00 SAFETY MTGS ATTENDED: 1 DAYS SINCE LAST LTA RIG/OPER: 25 / 25 REC: N F/A: N GOVT INSP?

INCIDENT? NO INCIDENT TYPE: SAFETY COMMENTS: MIXING CHEMICAL &amp; PROPER PPE

INCIDENT DESCRIPTION:

## OPERATION SUMMARY

FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	07:00	1.00	PT	008	TIH W/ BIT # 9 TO 6780'
07:00	08:30	1.50	N3	029	WASH & REAM 94', FROM 6780' TO 6876'
08:30	00:00	15.50	PT	002	DRILL FROM 6876' TO 7000', ROP 8 FPH, WOB 50-55, RPM 60-65
00:00	01:00	1.00	PT	005	CIRCULATE BOTTOMS UP
01:00	02:00	1.00	PT	008	WIPER TRIP (10 STANDS) NO HOLE PROBLEMS
02:00	04:30	2.50	PT	005	CIRCULATE FOR WL LOGS, DROP SURVEY, SPOT 50 VIS MUD IN OPEN HOLE
04:30	06:00	1.50	PT	007	TOOH W/ BIT # 9 FOR WIRE LINE LOGS

## MUD PROPERTIES

DAILY COST 2,887 CUM COST 27,892

TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	PmvPl	Ch	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
13:00	6,385	9.20	35	80	10/6	3/6	9.8/	6.0	1.25		10.00	1.2/0.40	200	180	/	/	WATER	/8.5

## BITS

RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	9	8.750	Smith	F30-T	527X	MK4109	18/18/18/11111	6,876.0									

## BIT OPERATIONS

RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	9	0 / 0	60 / 65	401	1,890	393	15.50	124	8.00	15.50	124.0	8.00

## BHA # 9 BIT # BHA / HOLE CONDITIONS

BHA WT BELOW JARS	P/U WT	S/O WT	RT WT	TORQUE ON/OFF	HRS ON JARS
(klb)	0 (klb)	0 (klb)	0 (klb)	(ft-lbf) / (ft-lbf)	
BHA LENGTH: 850.55	MIN ID: 0.000	BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar					

## HYDRAULICS / PUMPS

FLOW RATE: 401.17		HSI: 1.527		IMPACT: 417.38		JET VEL: 218.4		AV DC:		AV DP:		ECD	
#	PUMP		LINER (in)	STROKE (in)	SPM	GPM	PRES (psi)	EFF %	SPM1/SPR1	PRES (psi)	SPM2/SPR2	PRES (psi)	
2	D-1000		6.000	10.000	115	401.17	1,690	95.0	/		/		

## PERSONNEL DATA

POB: 18

COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER	1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC	1	2.00
PATTERSON DRLG	11	144.00	RW JONES TRUCKING	1	2.00
PASON MUD LOGGERS	2	24.00			



**CHEVRON TEXACO  
MORNING REPORT**

Page 2 of 2

Well Name: SWD # 5

WBSE: DD01CTA3VF.CAP.DRILL API: 43-015-30510

Rpt #: 27

Date: 1/1/2002

**DAILY OPERATIONAL COMMENTS**

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ RIG CREWS

TD CHANGED TO 7000' @ 1400 HOURS 12/31/2001



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: DD01CTA3VF.CAP DRILL API: 43-015-30510 Rpt #: 28 Date: 1/2/2002

WELL INFO	ELEVATIONS						DEPTH/DAYS						
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)						MD/TVD: 7,000 (ft) / 6,662 (ft)				DOL/DFS: 28.00 / 22.00		
SPUD DATE: 12/5/2000							FOOTAGE: (ft)				24 HR ROP:		
RIG: PATTERSON # 5 5							DRILL HRS:				PROPOSED TD: 8,000 (ft)		
DRLG SUPRS:	NEXT CSG: 7,000 (in) @ 8,000 (ft)						AFE Days +/- Goal:						
HACK BLANKENSHIP	CASING						COSTS DRLG & COMP						
RIG PHONE: 435 687-2197	CSG	MD	TVD	TOL	LO	LNR		DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
CELLPHONE: 903 520-0567	9.625	3.010	3.010			N	Est.	1,097,000	61,000	239,000	204,000	0	1,601,000
ENGR:	13.375	304	304			N	Est+OE	1,097,000	61,000	239,000	204,000	0	1,601,000
DALE MITCHELL							Cum	629,713	5,566	81,099	35,637	41,621	793,637
							Daily	35,890	0	0	0	0	35,890

CURRENT OP AT REP TIME: TOOH W/ BIT # 9  
PLANNED OPERATIONS: WL LOGS TRIP L/D DRILL STRING

SAFETY SUMMARY			
MANHRS WORKED: 248.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 26 / 28	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: WORKING AROUND LOGGING EQUIPMENT	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
08:00	08:00	2.00	PT	007	FINISH TOOH W/ BIT # 9 FOR WL LOGS, SURVEY @ 6975' = 1-1/2 DEGREE
08:00	13:00	5.00	N2	011	WAIT ON SCHLUMBERGER WIRE LINE
13:00	13:30	0.50	PT	028	SAFETY MEETING W/ SCHLUMBERGER, R/U, GENERATOR NOT FUNCTIONING PROPERLY ON LOGGING UNIT
13:30	17:00	3.50	N2	011	WAIT ON SECOND LOGGING UNIT
17:00	18:30	1.50	PT	011	R/U SCHLUMBERGER
18:30	22:30	4.00	PT	011	LOG W/ PLATFORM EXPRESS RUN # 1, LOGGERS DEPTH = 6996'
22:30	02:30	4.00	PT	006	TIH W/ BIT # 9, TAG @ 6994', WASH 8' TO BOTTOM
02:30	05:00	2.50	PT	005	CIRCULATE & CONDITION HOLE TO RUN CASING
05:00	06:00	1.00	PT	030	SAFETY MEETING & RIG UP LAY DOWN MACHINE

MUD PROPERTIES											DAILY COST				876	CUM COST				28,768
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	CN	Ca	OH%/OW	ES/EX	TYPE	LG/DS%		
13:00	6.385	9.20	35	80	10/6	3/6	9.6/	6.0	1.25		10.00	1.2/0.40	200	160	/	/	WATER	/6.5		

BITS													
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	O	L B G O R
1	9	8.750	Smith	F30-T	527X	MK4109	16/16/16/11111	6,876.0					

BIT OPERATIONS											
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH
1	9	/	/							15.50	124.0

BHA # 9		BIT #		BHA / HOLE CONDITIONS			
BHA WT BELOW JARS		P/U WT	S/O WT	RT WT	TORQUE ON/OFF		HRS ON JARS
(kib)		(kib)	(kib)	(kib)	(ft-lbf) / (ft-lbf)		
BHA LENGTH: 850.55		MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar							

PERSONNEL DATA						POB: 20	
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS		
CHEVRON TEXACO	1	24.00	NIELSON CONSTRUCTION INC	1	2.00		
CALLAWAY SAFETY	1	24.00	SCHLUMBERGER WIRELINE UNIT	3	48.00		
PATTERSON DRLG	11	144.00	R & S CASING CREW	3	6.00		

DAILY OPERATIONAL COMMENTS	
NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS	

Printed: 1/5/2002 2:14:10 AM



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5		WBSE: DD01CTA3VF.CAP.DRILL API: 43-015-30510		Rpt #: 29	Date: 1/3/2002													
<b>WELL INFO</b>		<b>ELEVATIONS</b>		<b>DEPTH/DAYS</b>														
FIELD: HUNNINGTON SPUD DATE: 12/5/2000 RIG: PATTERSON # 5 5 DRLG SUPRS: HACK BLANKENSHIP RIG PHONE: 435 687-2197 CELLPHONE: 903 520-0587 ENGR: DALE MITCHELL		RKB: 5,908.00 (ft)  NEXT CSG: 7.000 (in) @ 8,000 (ft)		MD/TVD: 7,000 (ft) / 6,662 (ft) FOOTAGE: (ft) DRILL HRS:  DOL/DFS: 29.00 / 23.00 24 HR ROP: PROPOSED TD: 8,000 (ft) AFE Days +/- Goal:														
		<b>CASING</b>		<b>COSTS DRLG &amp; COMP</b>														
		CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL				
		9.625	3,010	3,010			N	Est.	1,097,000	61,000	239,000	204,000	0	1,801,000				
		13.375	304	304			N	Est+OE	1,097,000	61,000	239,000	204,000	0	1,801,000				
								Cum	629,713	5,566	119,542	100,047	41,821	896,489				
								Daily	0	0	38,443	64,409	0	102,852				
CURRENT OP AT REP TIME: TOOH L/D DRILL STRING																		
PLANNED OPERATIONS: TOOH L/D, TIH CSG, CIRC, CEMENT, N/D BOP & SET SLIPS																		
<b>SAFETY SUMMARY</b>																		
MANHRS WORKED: 383.00		SAFETY MTGS ATTENDED: 1		DAYS SINCE LAST LTA RIG/OPER: 27 / 27		REC: N F/A: N		GOVT INSP?										
INCIDENT? NO		INCIDENT TYPE:		SAFETY COMMENTS: USE CAUTION AROUND HIGH PRESSURE LINES														
INCIDENT DESCRIPTION:																		
<b>OPERATION SUMMARY</b>																		
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION													
08:00	13:00	7.00	PT	007	TOOH L/D DRILL STRING													
13:00	14:30	1.50	PT	030	PULL WEAR BUSHING, R/U CASING CREW, SAFETY MEETING													
14:30	20:30	6.00	PT	030	TIH W/ 151 JTS OF 7", 23#, N80, LT&C CASING, SHOE @ 7000', FLOAT COLLAR @ 6910', DV TOOL @ 5845'													
20:30	22:00	1.50	PT	005	CIRCULATE W/ RIG PUMP & R/D CASING CREW & R/U DOWELL SCHLUMBERGER													
22:00	23:30	1.50	PT	021	SAFETY MEETING, TEST LINES, & CEMENT 1ST STAGE W/282 SKS CLASS "G", 15.8# CEMENT													
23:30	02:00	2.50	PT	005	DROP BOMB & WAIT 30 MINUTES, OPEN DV TOOL W/ 450 PSI, CIRCULATE W/ 15 BBL CEMENT TO SURFACE													
02:00	03:30	1.50	PT	021	CEMENT 2ND STAGE W/ 355 SKS HILIFT, 11# LEAD CEMENT & 100 SKS CLASS "G", 15.8# TAIL CEMENT, BUMP PLUG, & 10 BBL CEMENT TO SURFACE													
03:30	04:30	1.00	PT	021	R/D DOWELL & CLEAN CELLAR													
04:30	08:00	1.50	PT	014	N/D BOP TO SET SLIPS													
<b>MUD PROPERTIES</b>																		
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTP	SOLIDS	SAND%	CEC	pH	Pm/Pt	CHI	Ca	OH%/OW	ES/EXL	TYPE	LGS/DS%
13:00	6,385	9.20	35	80	10/8	3/6	9.8/	6.0	1.25	10.00	1.2/0.40	200	160	/	/	/	WATER	/6.5
<b>BITS</b>																		
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA		DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	9	8.750	Smith	F30-T	527X	MK4109	16/16/16/11111		6,876.0									
<b>BIT OPERATIONS</b>																		
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP						
BHA # 9	BIT #	<b>BHA / HOLE CONDITIONS</b>																
BHA WT BELOW JARS			P/U WT		S/O WT		RT WT		TORQUE ON/OFF			HRS ON JARS						
									/									
BHA LENGTH: 850.55			MIN ID: 0.000		BHA HRS SINCE LAST INSPECTION:													
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar																		
<b>PERSONNEL DATA</b>															POB: 33			
COMPANY		#	MAN HRS		COMPANY		#	MAN HRS										
CHEVRON TEXACO		1	24.00		R & S CASING CREW		7	85.00										
CALLAWAY SAFETY		1	24.00		WEATHERFORD		2	28.00										
PATTERSON DRLG		11	144.00		DOWELL SCHLUMBERGER INC.		6	54.00										
NIELSON CONSTRUCTION INC		4	20.00		VETCO GRAY		1	4.00										
<b>DAILY OPERATIONAL COMMENTS</b>																		
NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS																		



# CHEVRON TEXACO MORNING REPORT

Page 1 of 1

Well Name: SWD # 5 WBSE: DD01CTA3VF CAP DRILL API: 43-015-30510 Rpt #: 30 Date: 1/4/2002

WELL INFO		ELEVATIONS		DEPTH/DAYS	
FIELD: HUNNINGTON	RKB: 5,908.00 (ft)	MD/TVD: 7,000 (ft) / 6,662 (ft)	DOL/DFS: 30.00 / 24.00		
SPUD DATE: 12/5/2000		FOOTAGE: (ft)	24 HR ROP: 8,000 (ft)		
RIG: PATTERSON # 5 5	NEXT CSG: 7,000 (in) @ 8,000 (ft)	DRILL HRS:	PROPOSED TD: AFE Days +/- Goal:		
ORLG SUPRS:					
HACK BLANKENSHIP					
RIG PHONE: 435 687-2197					
CELLPHONE: 903 520-0567					
ENGR: DALE MITCHELL					

CASING						COSTS DRLG & COMP						
CSG	MD	TVD	TOL	LO	LNR	Est.	DH Cash	DH MOH	CompCash	CompMOH	Conteng	TOTAL
9.625	3,010	3,010			N	Est.	1,097,000	61,000	239,000	204,000	0	1,601,000
13.375	304	304			N	Est+OE	1,097,000	61,000	239,000	204,000	0	1,601,000
						Cum	638,962	5,566	130,619	103,249	41,621	920,217
						Daily	9,249	0	11,277	3,202	0	23,728

CURRENT OP AT REP TIME: N/D BOP TO SET SLIPS  
PLANNED OPERATIONS: SET CSG SLIPS, CUT OFF, SET OUT BOP, N/U TBG HEAD & TEST

SAFETY SUMMARY			
MANHRS WORKED: 204.00	SAFETY MTGS ATTENDED: 1	DAYS SINCE LAST LTA RIG/OPER: 28 / 28	REC: N F/A: N GOVT INSP?
INCIDENT? NO	INCIDENT TYPE:	SAFETY COMMENTS: RIGGING DOWN & RIG MOVE	
INCIDENT DESCRIPTION:			

OPERATION SUMMARY					
FROM	TO	HRS	P/NPT	CODE	DESCRIPTION
06:00	09:00	3.00	PT	014	N/D BOP, SET SLIPS, CUT OFF CASING
09:00	14:30	5.50	PT	025	SET OUT BOP & CLEAN MUD TANKS &
14:30	18:00	3.50	PT	014	MAKE FINAL CUT ON CASING & N/U TUBING HEAD & TEST, RIG RELEASED @ 1800 HOURS 01/03/2002
18:00	06:00	12.00	N1	001	RIG DOWN

MUD PROPERTIES										DAILY COST		876		CUM COST		29,644		
TIME	DEPTH	WT	VIS	TEMP	PV/YP	GELS	WL/HTHP	SOLIDS	SAND%	CEC	pH	Pm/Pf	CH	Ca	Oil%/OW	ES/ExL	TYPE	LGS/DS%
13:00	6,385	9.20	35	80	10/8	3/6	9.6/	6.0	1.25		10.00	1.20/4.0	200	160	/	/	WATER	/6.5

BITS																	
RUN	BIT #	SIZE	MANUFACT	TYPE	IADC	SERIAL #	JETS OR TFA	DEPTH IN	DEPTH OUT	I	O	D	L	B	G	O	R
1	9	8.750	Smith	F30-T	527X	MK4109	18/16/18/11111	6,876.0									

BIT OPERATIONS												
RUN	BIT #	WOB	RPM	GPM	PRESSURE	P BIT	HRS	24HR FTG	24HR ROP	CUM HRS	CUM DEPTH	CUM ROP
BHA # 9	BIT #											

BHA / HOLE CONDITIONS											
BHA WT BELOW JARS		P/U WT		S/O WT		RT WT		TORQUE ON/OFF		HRS ON JARS	
BHA LENGTH: 850.55		MIN ID: 0.000						BHA HRS SINCE LAST INSPECTION:			
BHA DESCRIPTION: 1-Tri-Cone Bit, 1-Bit Sub, 2-Drill Collar, 1-Integral Blade Stabilizer, 1-Drill Collar, 1-Integral Blade Stabilizer, 21-Drill Collar, 1-Drilling Jar, 3-Drill Collar											

PERSONNEL DATA						POB: 14	
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS		
CHEVRON TEXACO	1	24.00	PATTERSON DRLG	11	144.00		
CALLAWAY SAFETY	1	24.00	VETCO GRAY	1	12.00		

DAILY OPERATIONAL COMMENTS	
NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS	
RIG MOVE SCHEDULED 01/05/2002	

# CONFIDENTIAL

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

## ENTITY ACTION FORM

Operator: Texaco North American Production, Inc. Operator Account Number: N 5700  
Address: 3300 North Butler  
city Farmington  
state NM zip 87401 Phone Number: (505) 325-4397

### Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4301530510	SWD #5	SESE	23	17S	8E	Emery
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	13403	12/6/2001	1-7-02		
Comments:						

### Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

### Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

### ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Ian Kephart

Name (Please Print)

Signature  
Engineer

Title

12/21/2001  
Date

Texaco Exploration and  
Production Inc.  
MidContinent Business Unit  
11111 S. Wilcrest  
Houston, TX 77099  
Tel 281 561 4894  
kephaim@chevrontexaco.com

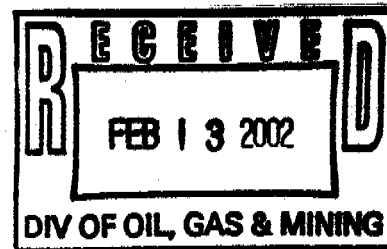
Ian M. Kephart  
Production Engineer  
CoalBed Methane Team

CONFIDENTIAL

**ChevronTexaco**

February 8, 2002

Lisha Cordova  
State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801



Re: **Drilling Reports**  
SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT  
*43-015-30510*

Dear Lisha:

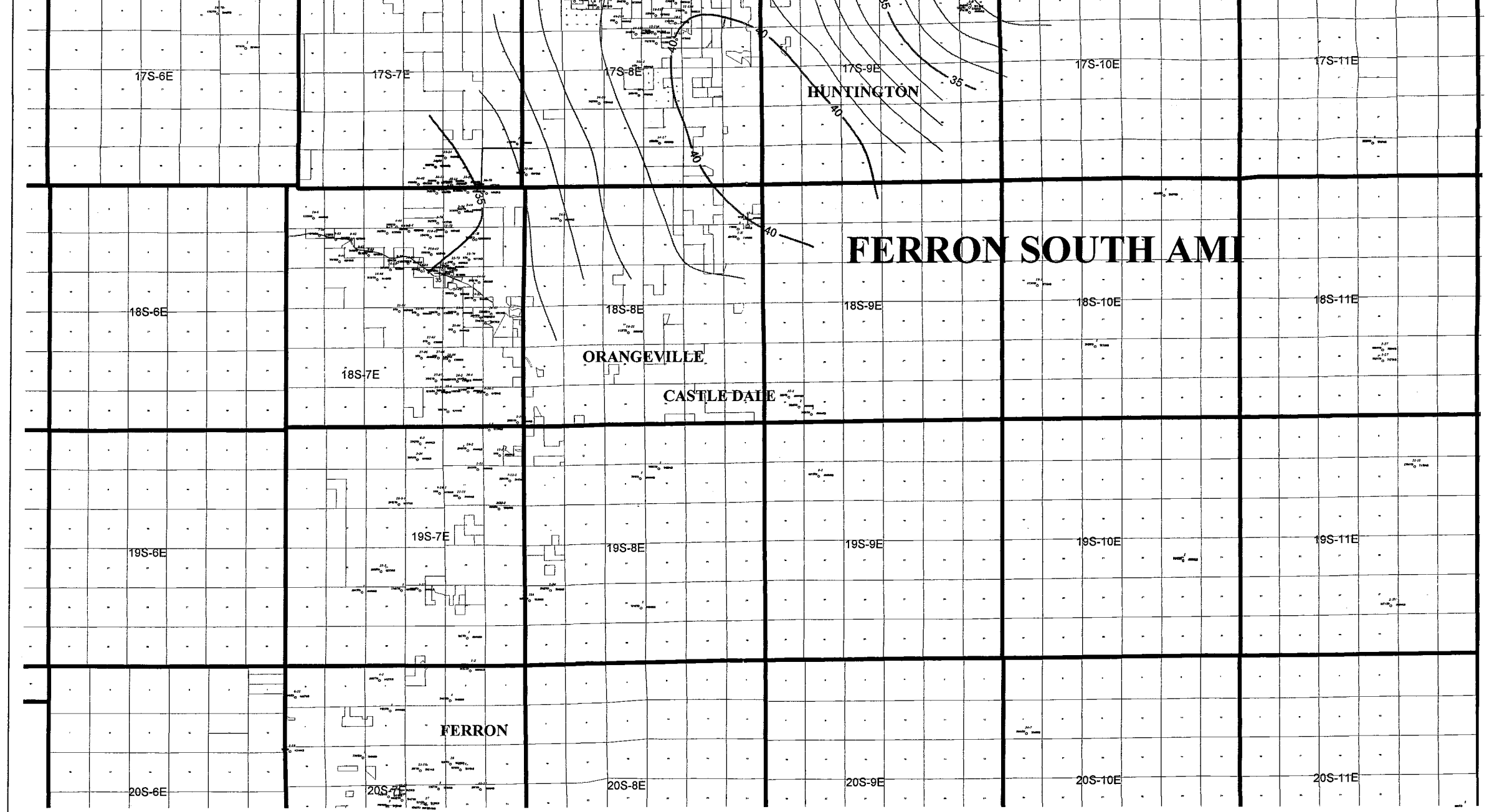
Attached is the remainder of the daily drilling reports for the subject well. The well was spudded on 12/6/01 and reached TD on 1/4/02. The well is now in the completion phase.

Thank you very much for your time. Please feel free to contact me at (281) 561-4894 if you have any questions.

Sincerely,

Ian M. Kephart  
Price/Ferron Production Engineer

cc: Well file



**ChevronTexaco**  
**Texaco E&P, Inc.**

**DRUNKARDS WASH-FERRON PLAY**

*ANHYDRITE ISOPACH*

**Geologist:**

**Julia Caldarò-Baird**

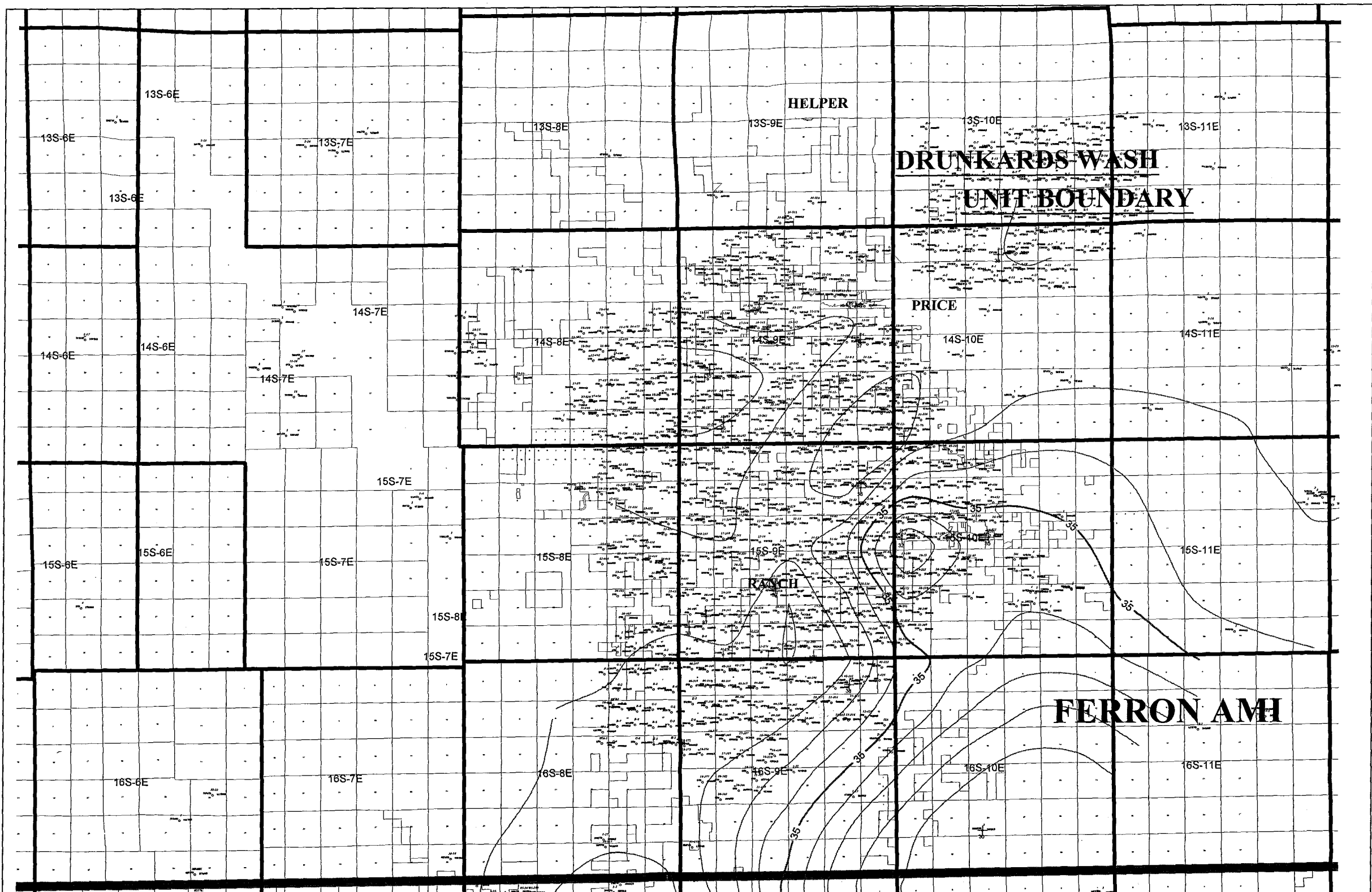
**Date:**

**19 February, 2002**

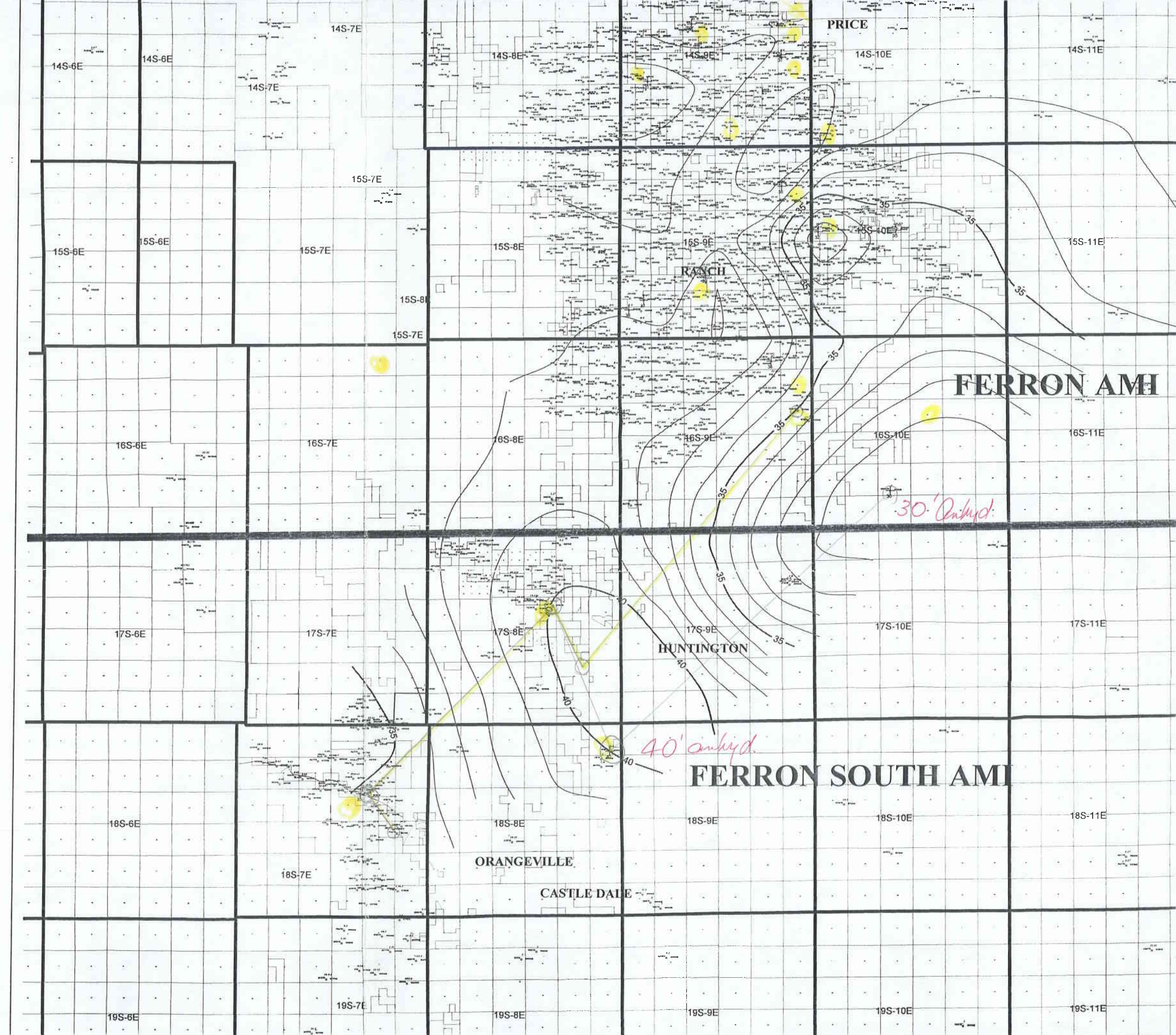
**Scale: 1:192000**

**CI: 1 foot**











April 9, 2002

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APR 12 2002

## DIVISION OF OIL, GAS AND MINING

Dear Mr. Baza:

As you may recall from our meeting last year, we planned to combine the assets of Chevron U.S.A. Inc. ("CUSA"), by merger, and Texaco Exploration and Production Inc. ("TEPI"), by assignment, into a new entity which we referred to as "Newco LP". Along the way, additional information came to light and it was decided that this proposed corporate restructure would not be preferable. Therefore, CUSA and TEPI have continued to operate as separate entities.

We are now planning a simpler restructuring process where TEPI will assign most of its assets/operatorship to CUSA effective May 1, 2002. We plan to use the existing CUSA bonds/letters of credit, operator identification numbers, etc., for the TEPI assets that will be assigned.

A task force of Land, Regulatory and Environmental Compliance personnel are finishing the work that was begun last year to assign TEPI's assets—using the same forms and procedures as before. We have “new faces” in this task force due to reassignments and departures. In some cases, it may be worthwhile to visit you and your staff in person where new people are involved or if we need to review/clarify your forms and procedures. Otherwise, we will endeavor to complete the work to assign TEPI's assets/operatorship to CUSA and deliver the requisite materials to you in a timely manner.

During discussions last year, our focus was on Land, Regulatory and Environmental matters. The Finance organization also desires to join in this effort. For State Tax, Royalty and Regulatory reporting purposes (applicable to production from May 2002 through December 2002), we intend to generate two reports and two payments.

However, the reporting company name and identification number will be CUSA's. Beginning with January 2003 production and thereafter, we will issue only one CUSA report and payment. We trust this plan meets with your approval. Any questions or comments should be directed to Rick Dunlavy (telephone 713/752-7411, rickdunlavy@chevrontexaco.com).

We appreciate the cooperation and guidance you provided us in the past, and we look forward to bringing these efforts to a conclusion.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Don R. Sellars". The signature is fluid and cursive, with the first name "Don" and last name "Sellars" clearly distinguishable.

Don R. Sellars

Sr. Environmental Specialist



Chevron U.S.A. Inc.  
Midcontinent Business Unit  
Ferron Operations  
Emery County, Utah

Name / Operatorship Change  
Texaco Exploration and Production Inc.  
to  
Chevron U.S.A. Inc.  
Disposal Wells

Account Number	Section	Township	Range	API Number	Well Name	Lease Type	Well Status Main	Well Type Main	Fed or State
N5700	15	170S	080E	4301530490	SWD 4	4	APD	WD	FEE
N5700	11	180S	070E	4301530303	SWD 3	4	I	WD	FEE
N5700	14	180S	070E	4301530323	SWD 2	4	A	WD	FEE
N5700	24	180S	070E	4301530272	SWD 1	4	A	WD	FEE
N5700	23	18S	080E	4301530510	SWD 5	4	I	WD	FEE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Operator Name Change</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See Attached List of Wells</u>
2. NAME OF OPERATOR: <u>Chevron U.S.A. Inc.</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>BLM &amp; State of Utah</u>
3. ADDRESS OF OPERATOR: <u>P.O. Box 36366</u> CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77236</u>		7. UNIT or CA AGREEMENT NAME: <u>Orangeville &amp; Huntington</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See Attached List of Wells</u>		8. WELL NAME and NUMBER: <u>See Attached List of Wells</u>
PHONE NUMBER: <u>(281) 561-3443</u>		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>Operator Name</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Change (Merger)</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective May 1, 2002, Chevron U.S.A. Inc. is the new operator of the attached list of subject wells and leases that were previously operated by Texaco Exploration and Production Inc. The subject wells are located North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following surety bonds:

STATE OF UTAH Bond #: 103521627-0018 in the amount of \$80,000. (This bond will replace United Pacific Insurance Company bond number U89-75-80-0059. We respectfully request this bond be released and returned.)

BLM Nationwide Bond#: U89-75-81-0034 in the amount of \$300,000.

Key Contacts:

Ron Wirth - Operations Supervisor - 435 748-5395 x1  
Texaco Exploration & Production Inc.

J. S. Purdy, Attorney-In-Fact

**RECEIVED**

MAY 06 2002

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>Allen S. Robinson</u>	TITLE <u>Attorney-In-Fact</u>
SIGNATURE <u>Allen S. Robinson</u>	DATE <u>April 30, 2002</u>

(This space for State use only)

1. GLH
2. CDW
3. FILE

## X Merger

The operator of the well(s) listed below has changed, effective:		05-01-2002
<b>FROM:</b> (Old Operator):		<b>TO:</b> ( New Operator):
TEXACO EXPLORATION & PRODUCTION INC		CHEVRON USA INC
Address: 3300 NORTH BUTLER, SUITE 100		Address: P O BOX 36366
FARMINGTON, NM 87401		HOUSTON, TX 79702
Phone: 1-(505)-325-4397		Phone: 1-(915)-687-2000
Account No. N5700		Account No. N0210

Unit:

**WELL(S)**

[illegible]

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 05/06/2002
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/12/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 08/01/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 564408-0143
5. If **NO**, the operator was contacted on: N/A
6. (R649-9-2) Waste Management Plan received on: IN PLACE

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A

---

**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

---

**8. Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

---

**9. Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/05/2002

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 08/01/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 08/01/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

---

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

---

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: N/A

---

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: N/A

---

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 103521627-0018
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

---

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 08/01/2002

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**COMMENTS:**

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MidContinent Business Unit  
North America Upstream  
11111 South Wilcrest Dr.  
Houston, TX 77099  
(281) 561-4894  
(281) 561-3418  
kephaim@chevrontexaco

Ian Kephart  
Production Engineer/CBM Team

CONFIDENTIAL

**ChevronTexaco**

May 15, 2002

Carol Daniels  
State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

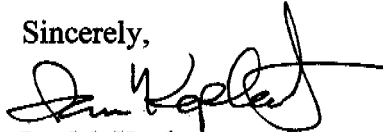
Re: **UDOGM Form 9-Completion Report**  
SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT

Dear Carol:

Attached is the UDOGM Form 9 for the subject well. The well is currently shut-in as we are preparing our UIC permit for injection.

Thank you very much for your time. Please feel free to contact me at (281) 561-4894 if you have any questions.

Sincerely,



Ian M. Kephart

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MAY 20 2002

DIVISION OF  
OIL, GAS AND MINING

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER SWD

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER ☐

2. NAME OF OPERATOR: CHEVRONTXACO EXPLORATION AND PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: 11111 S. WILCREST CITY HOUSTON STATE TX ZIP 77099 PHONE NUMBER: (281) 561-4894

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 101' FSL; 1108' FWL  
AT TOP PRODUCING INTERVAL REPORTED BELOW: SAME AS SURFACE  
AT TOTAL DEPTH: SAME AS SURFACE

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME: NA

8. WELL NAME and NUMBER: SWD #5

9. API NUMBER: 4301530510

10. FIELD AND POOL, OR WILDCAT: Buzzard Bench

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23 17S 8E

12. COUNTY: EMERY

13. STATE: UTAH

14. DATE SPUDDED: 12/6/2001

15. DATE T.D. REACHED: 1/1/2002

16. DATE COMPLETED: 3/7/2002

ABANDONED ☐ READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL): 5893' GR; 5910' KB

18. TOTAL DEPTH: MD 7,000 TVD 7,000

19. PLUG BACK T.D.: MD 6,910 TVD 6,910

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
✓ GR/ARRAY INDUCTION/COMPENSATED NEUTRON/TRIPLE DETECTOR DENSITY/ULTRA SONIC IMAGER

23.  
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)  
WAS DST RUN? NO ☒ YES ☐ (Submit report)  
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2"	133/8 F-25	48#	0	305		G 520		CIR	
12 1/4"	9 5/8 K-55	36#	0	3,010		G 345			
						RFC 170		CIR	
8 3/4"	7 N-80	23#	0	7,000		G 282		CIR/USI	
					5,845	HILIFT 355			
						G 100			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	5,972	5,972						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) NAVAJO	5,994	6,374	5,994	6,374	5,994 6,134	.45	548	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					6,171 6,362	.45	724	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) WINGATE	6,514	6,899	6,514	6,899	6,530 6,652	.45	488	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					6,677 6,690	.45	52	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5994'-6134'	Acidize w/ 6850 gals 15% HCL
6171'-6362'	Acidize w/ 9100 gals 15% HCL
6530'-6690'	Acidize w/ 6800 gals 15% HCL

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS  
☐ SONAR NOTICE OF PLUGGING AND CEMENT VERIFICATION

☐ GEOLOGIC REPORT  
☐ CORE ANALYSIS

☐ DST REPORT  
☐ DIRECTIONAL SURVEY  
☒ OTHER: Mud log

30. WELL STATUS:

Shut-in

MAY 20 2002

(CONTINUED ON BACK)

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**31. INITIAL PRODUCTION**
**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

None

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Ferron	1,600	1,900	Sandstone, Coal and Shale	Mancos Shale	0
Navajo	5,994	6,374	Sandstone	Blue Gate Shale	100
Kayenta	6,374	6,514	Sandstone, Shale	Ferron	1,600
Wingate	6,514	6,899	Sandstone, Shale	Tununk	1,900
				Curtis	3,640
				Entrada	4,034
				Carmel	4,584
				Navajo	5,994
				Kayenta	6,374
				Wingate	6,514

**35. ADDITIONAL REMARKS (Include plugging procedure)**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Ian Kephart

TITLE Production Engineer

SIGNATURE 

DATE 5/15/2002

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: **RECEIVED**  
 Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Texaco Exploration and  
Production Inc.  
MidContinent Business Unit  
11111 S. Wilcrest  
Houston, TX 77099  
Tel 281 561 4894  
kephaim@chevrontexaco.com

Ian M. Kephart  
Production Engineer  
CoalBed Methane Team

**ChevronTexaco**

June 10, 2002

Mr. Gil Hunt  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

**Subject:      Application for Injection Well - UIC Form 1**  
Texaco E&P Inc. Salt Water Disposal Well - SWD #5  
SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hunt:

Enclosed for your review is an injection application for the captioned well. This packet includes all the information needed for the permit except for the notification of offset surface and mineral owners. This information will come under separate cover when our land research is complete. Please proceed with the 15 day public notice for this application.

If you have any questions or require additional assistance, please contact me at (281) 561-4894.  
Thank you.

Sincerely,



Ian M. Kephart

Enclosures

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DIVISION OF  
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**Texaco North American Production, Inc.**  
**Salt Water Disposal Well Application**  
**SWD#5**

---

Regulatory Compliance Record

**R649-5-2-**

<b>2</b>	Application Form 1	Attached form
<b>2.1</b>	Plat showing the location of well & 1/2 mile radius of exposure	Attached map
<b>2.2</b>	Copies of logs (radioactive & electrical)	Attached
<b>2.3</b>	Copy of cement bond logs	To be submitted by Schlumberger
<b>2.4</b>	Copies of existing logs	None found
<b>2.5</b>	Description of casing	Attached table/diagram
<b>2.6</b>	Type of fluid, source and estimated volumes / daily	Attached
<b>2.7</b>	Standard lab analysis of fluid Compatibility of the fluids	Attached
<b>2.8</b>	Proposed pressures	Attached
<b>2.9</b>	Evidence and data to support that the well will not initiate fractures to enter fresh water	Attached
<b>2.10</b>	Geological data	Attached
<b>2.11</b>	Review of mechanical conditions	Attached
<b>2.12</b>	Affidavit certifying copies have been sent to all owners, operators and surface owners within a 1/2 mile radius	To be submitted later To be submitted later

---

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**11111 South Wilcrest**  
**Houston, TX 77099**  
**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.1**

Plat showing the location of the well, all abandoned or active wells within 1/2 mile radius of proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a 1/2 mile radius of the proposed injection well.

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**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.2**

Copies of electrical or radioactive logs, including gamma ray logs,  
for the proposed well run prior to the installation of casing and indicating  
resistivity, spontaneous potential, caliper, and porosity.

**Attached**

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**SWD #5**

**Requirements R649 - 5 - 2 - 2.3**

Copy of a cement bond or comparable log run for the proposed  
injection well after casing was set and cemented.

To be submitted by Schlumberger

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**SWD #5**

Requirements R649 - 5 - 2 - 2.4

Copies of logs already on file with DOGM

Research completed; no logs found

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**SWD #5**

Requirements R649 - 5 - 2 - 2.5

Description of the casing and proposed testing procedure

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## Proposed Casing Program

### TUBULAR PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	305'	305'	13 3/8"	48#	H-40	LT&C
Intermediate	12 1/4"	3010'	3010'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	7000'	7000'	7"	23#	N-80	LT&C

### CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>No. Sacks</u>	<u>Cement Type</u>	<u>Cmt Yield</u>	<u>Cmt Weight</u>
Surface			300'	Surface	375	G	1.15	15.8
Intermediate		Lead	2000'	Surface	345	G	1.15	14.2
		Tail	3010'	2000'	170	RFC 10-2	1.61	14.2
Production	5845'	2 <sup>nd</sup> Stage	5845'	Surface	455	Hi-lift & G	1.91	12.5
		1 <sup>st</sup> Stage	7000'	5845'	282	G	1.15	15.8

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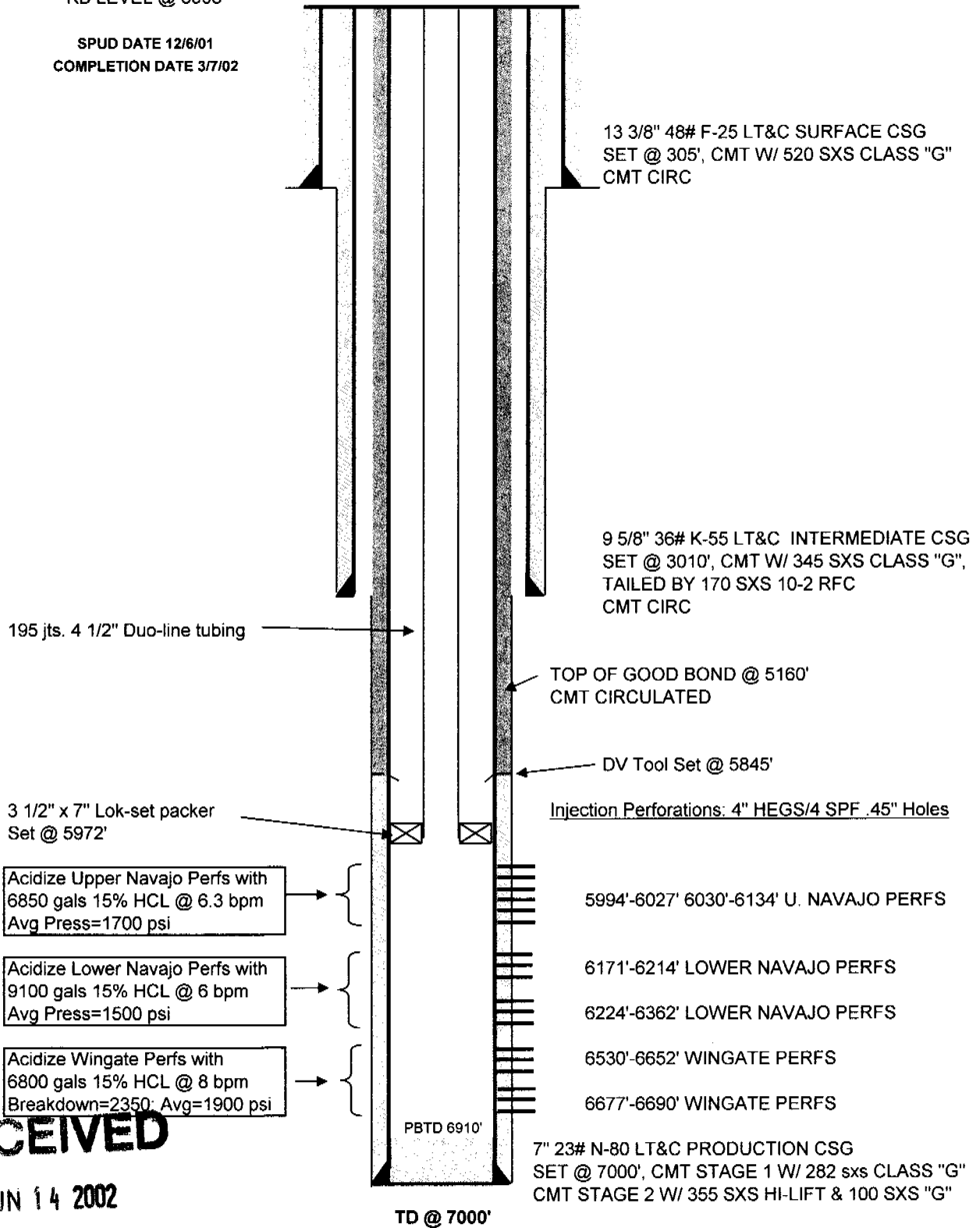
**SWD #5**

SEC 23, T 17S, R 8E  
101' FSL, 1108' FEL  
EMERY COUNTY, UT  
API # 43-015-30510

GROUND LEVEL @ 5893'  
KB LEVEL @ 5908'

SPUD DATE 12/6/01  
COMPLETION DATE 3/7/02

**CURRENT COMPLETION**



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# APPLICATION FOR INJECTION WELL - UIC FORM 1

Well name and number: SWD #5

Field or Unit name:	Lease No.	Fee
---------------------	-----------	-----

Well location: QQ SE/SE section 23 township 17S range 8E county Emery

Is this application for expansion of an existing project? . . . . . Yes ☒ No ☐

Will the proposed well be used for:

Enhanced Recovery? . . .	Yes [ ]	No [X]
Disposal ? . . . . .	Yes [X]	No [ ]
Storage ? . . . . .	Yes [ ]	No [X]

Is this application for a new well to be drilled ? . . . . . Yes [X] No [ ]

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . N/A . . . . . Yes [X] No [ ]

Date of Test: \_\_\_\_\_  
API Number: 43-015-30510 uic-296.1

Proposed injection interval: from 5994' to 6690'

Proposed maximum injection: rate 12,000 BWPD pressure 1,750 psig

Proposed injection zone contains ☐ oil, ☐ gas, and/or ☐ fresh water within 1/2 mile of the well.

**IMPORTANT:** Additional information as required by R649-5-2 should accompany this form.

List of Attachments

I certify that this report is true and complete to the best of my knowledge.

Name	Ian Kephart
Title	Production Engineer
Phone No.	(281) 561-4894

Signature [Signature]  
Date 6/10/00

(State Use Only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

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a:scalemix.xls		TEMPLATES FOR DOING BRINE MIXTURES																																					
<div>Spreadsheet for Saturation Indices and Amounts for Common Scales File a:scalemix.xls -- Templates for Brine Mixtures P.J. Shuler -- CPTC -- 7/28/94</div>										Uses Version 4 of Excel Based on Rice University Correlations of Odde and Tomson										Interpretation of Results SI -- Saturation Index SI > 1 -- scaling very likely 0.5 < SI < 1 -- scaling likely 0 < SI < 0.5 -- scaling possible SI = 0 -- saturated, borderline SI < 0 -- scaling unlikely										Positive value -- maximum amount that can precipitate Zero value -- no precipitation expected for that scale									
										NOTE: Columns V - BH hidden Formulas protected, inputs not																													
										Enter the concentration (mg/l) of species below Ca, Mg, Sr, Ba, Cl, SO4, and HCO3, and pH										-- Spreadsheet calculates Saturation Index, SI										SCALING CAPACITY (SC) ---									
																				<=== USER INPUTS TO LEFT (bold entries)										SATURATION INDEX RESULTS									
Sample		Temp (F)		Press psi		Ca		Mg		Sr		Ba		Cl		SO4		HCO3		pH		SI(BaSO4)		SI(SrSO4)		SI(CaSO4) (Gypsum)		SI(CaCO3)		BaSO4		SrSO4		CaSO4 (Gypsum)		CaCO3			
Example below where mix two waters together. Calculated scaling tendency versus mixing ratio.																																							
Input -->		Temp (F)		140		Press		3000		(psi)																													
ferron		140		3000		125		46		11		19		13347		5		6417		7.22		-0.19		-2.92		-3.95		1.32		0		0		0		104			
SWD 5 (Nav.) -		140		3000		340		58		1		1		16245		3408		1418		7.92		1.32		-1.21		-0.74		-1.73		1		0		0		279			
Percent ferron		Percent SWD 5 (Nav.)																																					
0		100		140		3000		340		58		1		1		16245		3408		1418		7.92		1.32		-1.21		-0.74		1.73		1		0		0		279	
10		90		140		3000		319		57		2		3		15955		3068		1918		7.77		1.69		-0.95		-0.81		1.69		2		0		0		267	
20		80		140		3000		297		56		3		5		15665		2727		2418		7.66		1.85		-0.82		-0.88		1.66		3		0		0		250	
30		70		140		3000		276		54		4		7		15376		2387		2918		7.58		1.94		-0.74		-0.97		1.62		4		0		0		233	
40		60		140		3000		254		53		5		8		15086		2047		3418		7.50		1.99		-0.70		-1.06		1.59		5		0		0		215	
50		50		140		3000		233		52		6		10		14796		1707		3918		7.44		2.01		-0.70		-1.18		1.56		6		0		0		196	
60		40		140		3000		211		51		7		12		14506		1366		4417		7.39		1.99		-0.72		-1.31		1.52		7		0		0		178	
70		30		140		3000		190		50		8		14		14216		1026		4917		7.34		1.94		-0.77		-1.47		1.48		8		0		0		159	
80		20		140		3000		168		48		9		16		13927		686		5417		7.30		1.83		-0.89		-1.69		1.43		9		0		0		141	
90		10		140		3000		147		47		10		17		13637		345		5917		7.26		1.59		-1.13		-2.05		1.38		10		0		0		122	
100		0		140		3000		125		46		11		19		13347		5		6417		7.22		-0.19		-2.92		-3.95		1.32		0		0		0		104	

**Texaco North American Production, Inc.**  
**11111 South Wilcrest**  
**Houston, TX 77099**  
**(281) 561-4894**

**SWD #5**

Requirements R649 - 5 - 2 - 2.6

A statement as to the type of fluid to be used for injection, its source  
and estimated amounts to be injected daily.

The fluid to be injected into SWD #5 will be a composite of waters gathered from gas wells that  
extract water from the Ferron coal seams. These wells are located within the attached lease list.

It is estimated that up to approximately 12,000 barrels of water will be injected daily.

See Attached List of wells that could be potential water sources

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**Current Huntington Unit Well List of Potential Water Sources**

<b>LEASE AND WELL #</b>	<b>API #</b>	<b>SEC</b>	<b>TWN</b>	<b>RNG</b>
UP&L #6-102	4301530441	6	17S	8E
UP&L #6-103	4301530483	6	17S	8E
UP&L #6-104	4301530442	6	17S	8E
State of Utah "GG" 5-107	4301530479	5	17S	8E
State of Utah "AA" 7-106	4301530396	5	17S	8E
State of Utah "BB" 5-108	4301530480	5	17S	8E
State of Utah "BB" 5-109	4301530481	5	17S	8E
State of Utah "BB" 5-110	4301530482	5	17S	8E
State of Utah "BB" 8-111	4301530486	8	17S	8E
Wm S Ivie, et al "BB" 9-118	4301530443	9	17S	8E
State of Utah "BB" 9-120	4301530444	9	17S	8E
Gardner Trust, et al 16-121	4301530478	16	17S	8E
State of Utah "CC" 10-123	4301530454	10	17S	8E
State of Utah "CC" 10-124	4301530438	10	17S	8E
State of Utah "FF" 10-125	4301530458	10	17S	8E
American West Group, et al 15-126	4301530484	15	17S	8E
WH Leonard, et al 15-127	4301530485	15	17S	8E
State of Utah "FF" 11-129	4301530459	11	17S	8E
State of Utah "FF" 11-130	4301530462	11	17S	8E
Utah Federal "M" 6-25	4301530292	6	17S	8E
Lemmon 10-1	4301530242	10	17S	8E
State of Utah "T" 36-10	4301530268	36	16S	7E
State of Utah "FO" 02-188	43-015-30553	2	17S	8E
Seeley Farms 09-117	43-015-30501	9	17S	8E
Seeley Farms 08-112	43-015-30495	8	17S	8E
State of Utah "BB" 04-116	43-015-30503	4	17S	8E
State of Utah "GG" 04-115	43-015-30504	4	17S	8E
State of Utah "GG" 3-122	43-015-30-499	3	17S	8E
State of Utah "BB" 09-119	43-015-30437	9	17S	8E
State of Utah "HH" 03-133	43-015-30500	3	17S	8E
State of Utah "CC" 03-161	43-015-30552	3	17S	8E
Conover 14-171	APD not apprv'd	14	17S	8E

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Malone 14-131	APD not apprv'd	14	17S	8E
State of Utah "AA" 7-105	43-015-30497	7	17S	8E
State of Utah "T" 36-100	APD not apprv'd	36	17S	7E
State of Utah 36-138	43-015-30550	36	17S	7E
State of Utah 36-139	43-015-30530	36	17S	7E
UP&L Federal 01-101	APD not apprv'd	1	17S	7E
Utah Federal "KK" 01-140	APD not apprv'd	1	17S	7E
Utah Federal "KK" 01-141	APD not apprv'd	1	17S	7E
State of Utah "FO" 02-186	APD not apprv'd	2	17S	8E
State of Utah "BB" 08-113	43-015-30496	8	17S	8E

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**11111 South Wilcrest**  
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**(281) 561-4894**

**SWD #5**

Requirements R649 - 5 - 2 - 2.7

Standard laboratory analyses of the fluid to be injected,  
the fluid in the formation into which the fluid is being injected,  
and the compatibility of the fluids.

See Attached Analyses

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**DIVISION OF  
OIL, GAS AND MINING**



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# COMMERCIAL TESTING & ENGINEERING CO.

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ADDRESS ALL CORRESPONDENCE TO:

P.O. BOX 1020

HUNTINGTON, UT 84528

TEL: (435) 853-2311

FAX: (435) 853-2436

March 25, 2002

TEXACO EXPLORATION  
P.O. BOX 618  
ORANGEVILLE UTAH 84537  
RON WIRTH

Sample identification by  
TEXACO EXPLORATION

ID: SWD 5 - WINGATE FORMATION

Kind of sample Water  
reported to us

RECEIVED 1140

SAMPLED 1100

Sample taken at

Sample taken by TEXACO

Date sampled February 11, 2002

Date received February 11, 2002

## NOTES:

DIS. METALS

FILTERED @ LAB

SILICON ANALYZED AT CTE DENVER

Page 1 of 2

Analysis report no. 59-23765

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Acidity	<5	5	mg/l as CaCO <sub>3</sub>	D1067-92	02-14-2002 1230 DI
Alkalinity, Bicarbonate	3087	5	mg/l as HCO <sub>3</sub>	EPA 310.1	02-14-2002 1020 DI
Alkalinity, Carbonate	116	5	mg/l as CO <sub>3</sub>	EPA 310.1	02-14-2002 1020 DI
Alkalinity, Total	2724	5	mg/l as CaCO <sub>3</sub>	EPA 310.1	02-14-2002 1020 DI
Anions	1120.1		meq/l		12-25-2002 1630 SB
Barium, Total	2.1	0.6	mg/l	EPA 208.1	02-15-2002 1009 MK
Calcium, Total	224	1	mg/l	EPA 215.1	02-15-2002 1020 MK
Cations	1047.1		meq/l		12-25-2002 1630 SB
Chloride	35450.0	0.5	mg/l	EPA 300.0	02-15-2002 0853 SC
Conductivity	87800		umhos/cm	SM2510-B	02-15-2002 1130 SC
Density	1.04				02-15-2002 1300 CV
Hardness, Total	893		mg/l as CaCO <sub>3</sub>	SM2340-B	12-25-2002 1630 SB
Iron, Total	392.8	0.1	mg/l	EPA 236.1	02-15-2002 0751 MK
Magnesium, Total	81	1	mg/l	EPA 242.1	02-15-2002 1036 MK
Nitrogen, Ammonia	1.0	0.1	mg/l as N	EPA 350.3	02-19-2002 1340 SC
Nitrogen, Nitrate	<3.00	1.05	mg/l as N	EPA 300.0	02-12-2002 0800 SC
Nitrogen, Nitrite	<3.00	1.05	mg/l as N	EPA 300.0	02-12-2002 0800 SC
pH	8.53		pH units	EPA 150.1	02-11-2002 1410 DI
Potassium, Total	786	1	mg/l	EPA 258.1	02-15-2002 0824 MK
Silicon	47.0	0.05	mg/l	EPA 200.7	03-11-2002 1630 SK
Sodium, Total	23200	1	mg/l	EPA 273.1	02-15-2002 0905 MK
Solids, Total Dissolved	63404	10	mg/l	EPA 160.1	02-11-2002 1200 DI
Solids, Total Suspended	3703	5	mg/l	EPA 160.2	02-11-2002 1200 DI
Sulfate	3255	0.5	mg/l	EPA 300.0	02-12-2002 0900 SC

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

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 TEL: (435) 653-2311  
 FAX: (435) 653-2436

March 25, 2002

 TEXACO EXPLORATION  
 P.O. BOX 618  
 ORANGEVILLE UTAH 84537  
 RON WIRTH

 Sample identification by  
 TEXACO EXPLORATION

ID: SWD 5 - NAVAJO FORMATION

 Kind of sample Water  
 reported to us

 RECEIVED 0940  
 SAMPLED NONE GIVEN

Sample taken at TEXACO

Sample taken by Laine Norton

SILICON ANALYZED AT CTE DENVER

Date sampled February 21, 2002

Date received February 21, 2002

Page 1 of 2

Analysis report no. 59-21772

Parameter	Result	MRL	Units	Method	Analysed Date/Time/Analyst
Acidity	<5	5	mg/l as CaCO <sub>3</sub>	D1067-92	02-22-2002 0900 DI
Alkalinity, Bicarbonate	1418	5	mg/l as HCO <sub>3</sub>	EPA 310.1	02-22-2002 1030 DI
Alkalinity, Carbonate	<5	5	mg/l as CO <sub>3</sub>	EPA 310.1	02-22-2002 1030 DI
Alkalinity, Total	1162	5	mg/l as CaCO <sub>3</sub>	EPA 310.1	02-22-2002 1030 DI
Anions	552.4		meq/l		02-21-2002 1310 SJ
Barium, Total	1.2	0.6	mg/l	EPA 208.1	02-25-2002 1019 MK
Calcium, Total	340	1	mg/l	EPA 215.1	02-25-2002 1027 MK
Cations	568.5		meq/l		02-21-2002 1310 SJ
Chloride	16244.9	0.5	mg/l	EPA 300.0	02-18-2002 1023 SC
Conductivity	46200		umhos/cm	SM2510-B	02-19-2002 0830 SC
Density	1.01				03-04-2002 1430 DI
Hardness, Total	1088		mg/l as CaCO <sub>3</sub>	SM2240-B	02-21-2002 1310 SJ
Iron, Total	86.3	0.1	mg/l	EPA 236.1	02-25-2002 0811 MK
Magnesium, Total	58	1	mg/l	EPA 242.1	02-25-2002 1044 MK
Nitrogen, Ammonia	3.3	0.1	mg/l as N	EPA 350.3	02-19-2002 1340 SC
Nitrogen, Nitrate	<3.00	3.0	mg/l as N	EPA 300.0	02-18-2002 1023 SC
Nitrogen, Nitrite	<3.00	3.0	mg/l as N	EPA 300.0	02-18-2002 1023 SC
pH	7.92		pH units	EPA 150.1	02-19-2002 0730 SC
Potassium, Total	291	1	mg/l	EPA 258.1	02-25-2002 0850 MK
Silicon	0.56	0.05	mg/l	EPA 200.7	03-11-2002 1713 SK
Sodium, Total	12400	1	mg/l	EPA 273.1	02-25-2002 0907 MK
Solids, Total Dissolved	16128	10	mg/l	EPA 160.1	02-18-2002 1310 DI
Solids, Total Suspended	543	5	mg/l	EPA 160.2	02-18-2002 1350 DI
Sulfate	3408	0.5	mg/l	EPA 300.0	02-18-2002 1023 SC

 Respectfully submitted,  
 COMMERCIAL TESTING & ENGINEERING CO.

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HUNTINGTON, UT 84525  
TEL: (435) 653-2311  
FAX: (435) 653-2436

March 25, 2002

TEXACO EXPLORATION  
P.O. BOX 618  
ORANGEVILLE UTAH 84537  
RON WIRTH

Sample identification by  
TEXACO EXPLORATION

ID: SMD 5

RECEIVED 1140  
SAMPLED 1100

Kind of sample Water  
reported to us

Sample taken at

Sample taken by TEXACO

Date sampled February 11, 2002

Date received February 11, 2002

NOTES:  
DIS. METALS  
FILTERED @ 1µB  
SILICON ANALYZED AT CTE DENVER  
Page 2 of 2

Analysis report no. 59-24765

Parameter	Result	MRL	Units	Method	Analyzed Date/Time/Analyst
Cation/Anion Balance	-3.4		%		12-25-2002 1630 99

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*[Signature]*  
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TEL: (435) 653-2311  
FAX: (435) 653-2436

March 25, 2002

TEXACO EXPLORATION  
P.O. BOX 619  
ORANGEVILLE UTAH 84537  
RON WIRTH

Sample identification by  
TEXACO EXPLORATION

ID:SWD 5

Kind of sample Water  
reported to us

RECEIVED 0940  
SAMPLED NONE GIVEN

Sample taken at TEXACO

Sample taken by Laine Norton

SILICON ANALYZED AT CTE DENVER

Date sampled February 21, 2002

Date received February 21, 2002

Page 2 of 2

Analysis report no. 59-23772

Parameter	Result	MRI	Units	Method	Analyzed Date/Time/Analyst
Cation/Anion Balance	568.5		%		02-21-2002 1300 SJ

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*Loddy*

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DIVISION OF

**Texaco North American Production, Inc.**  
**11111 South Wilcrest**  
**Houston, TX 77099**  
**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.8**

Proposed average and maximum injection pressures.

A maximum of 12,000 barrels of water per day at a maximum pressure of 1,750 psi.

The proposed injection pressure of 1750 psi is based on the current approved injection pressure of the SWD #1 and SWD #2. This injection pressure results in a .70 psi/ft frac gradient at SWD's #1 and #2. Since the proposed injection zone in SWD #5 is similar in depth, this injection pressure will also result in an equivalent frac gradient.

See Attached Step-Rate test

2,596.36  
419.62

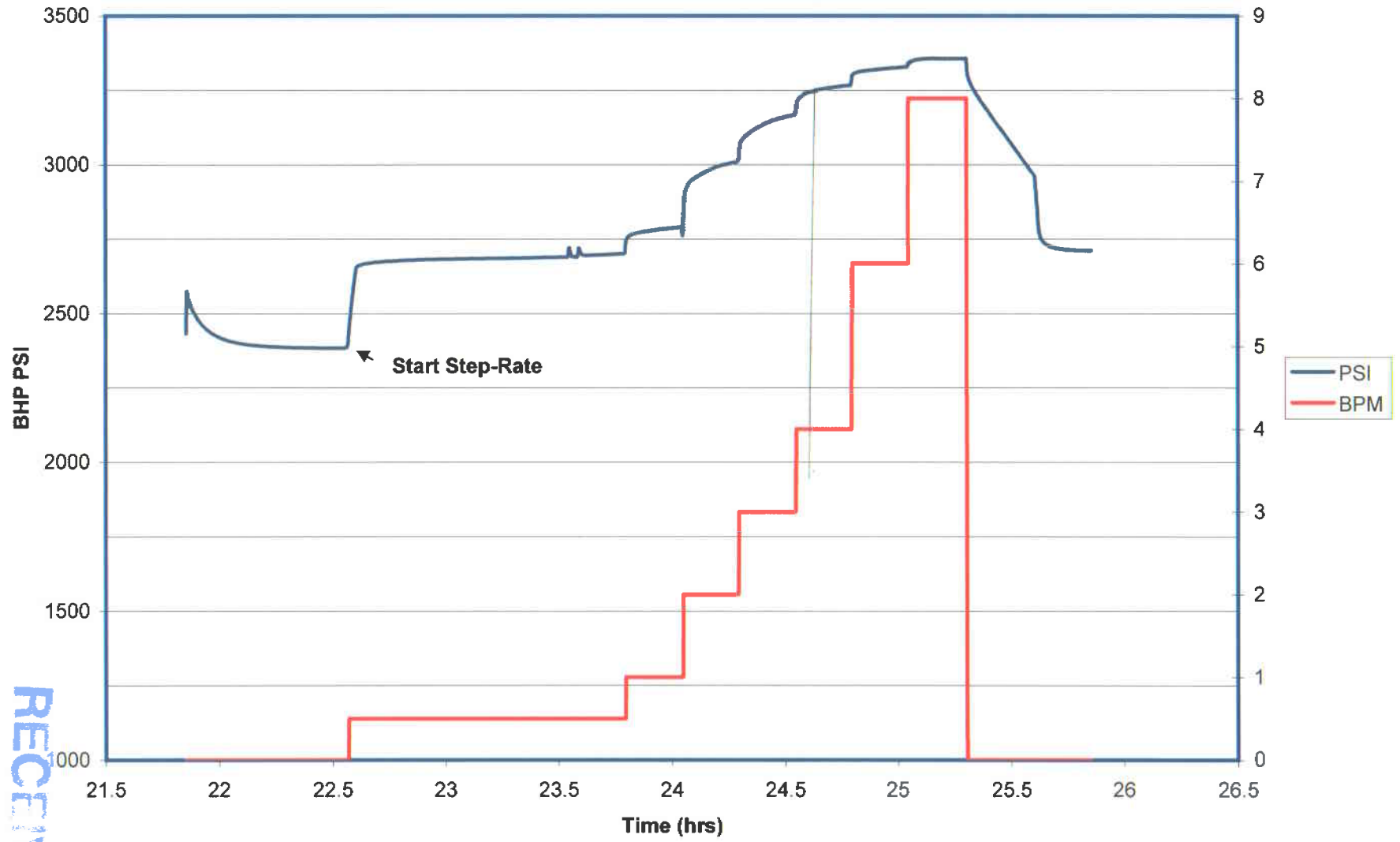
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# SWD #5 Step-Rate Test

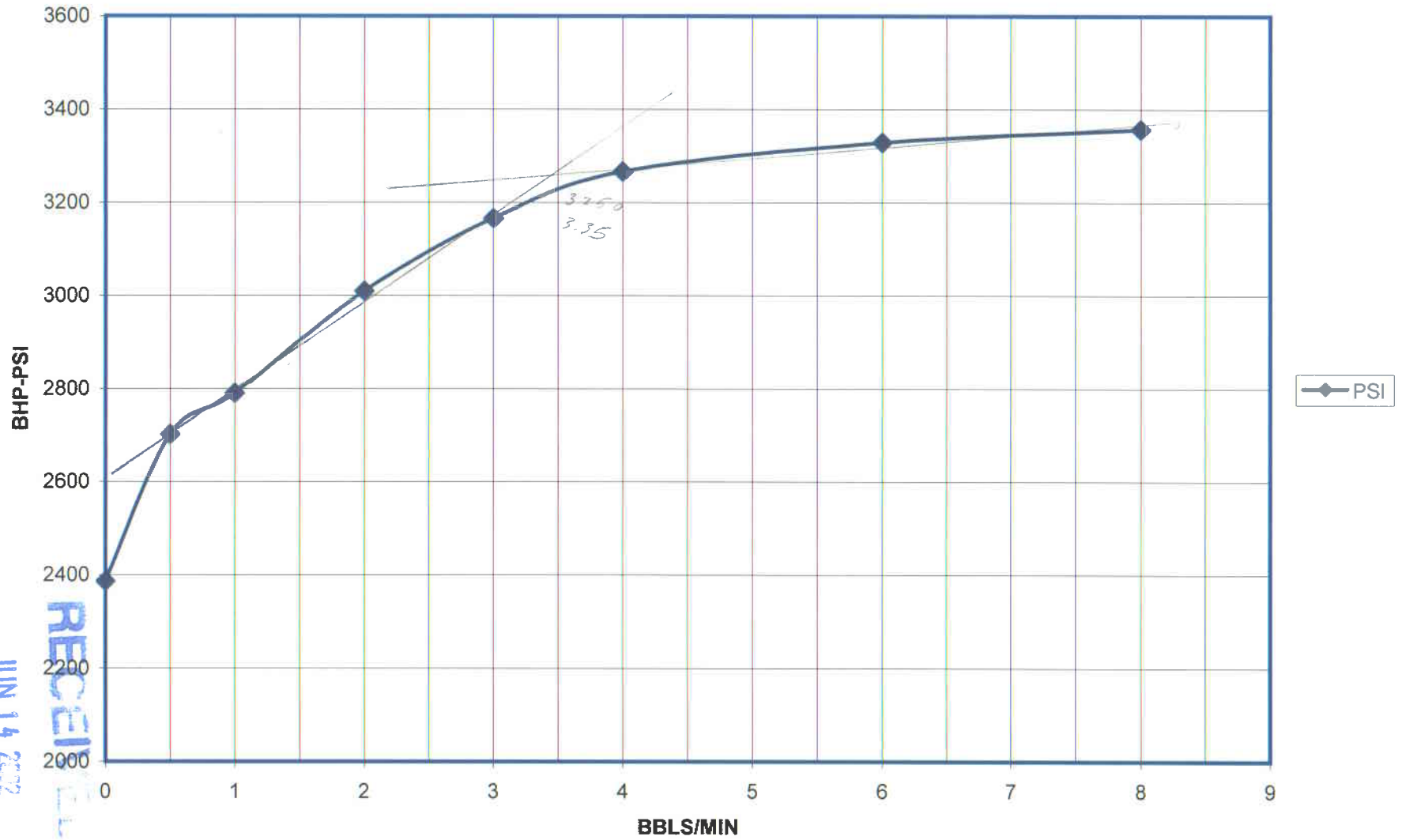


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### SWD #5 Fracture Parting Pressure



**Texaco North American Production, Inc.**  
**11111 South Wilcrest**  
**Houston, TX 77099**  
**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.9**

Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The Navajo is overlain by 1410 feet of Carmel Formation with some shale, minor salt and anhydrite and abundant sandstone with very low porosity which undoubtedly has very low permeability. The Carmel is too tight to transmit fluid through it and any fractures that might be initiated in the Navajo will not continue up through the Carmel to the overlying formations.

Please refer to the Stim-lab Study (1997) by Mike Conway in regards to the Carmel anhydrite acting as a barrier to fracture growth in the Navajo. This Study was conducted in the Orangeville area using the existing SWD #1 and SWD #2. Chevron Texaco feels that the anhydrite within the Carmel is continuous to the North and throughout the Huntington area as evidenced by cross-sectional logs between the SWD wells in Orangeville, the SWD #4 and SWD #5 in Huntington, and the southern-most disposal well in the Drunkard's Wash Unit. (See SWD #4 permit)

The anhydrite within the Carmel Formation is 36 feet thick in SWD #5. For comparison, the anhydrite in SWD #1 is 34 feet thick, in SWD #2 it is 33 feet thick, and in the SWD #4 it is 38 feet thick.

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**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.10**

Appropriate geological data on the injection interval and confining beds, including

- (1) geological name
- (2) lithological description
- (3) thickness
- (4) depth
- (5) lateral extent
- (6) information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

See Attached sheet describing Lithology descriptions

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### **Geological Description**

(1) Geological names and data of injection interval and confining beds:

Carmel Formation: (Confining Bed)

Salt, anhydrite and shale

Depth: 4584 feet

Thickness: 1410 feet

Navajo Formation: (Injection interval)

Sandstone

Depth: 5994 feet

Thickness: 380 feet

Kayenta Formation: (Confining Bed)

Shale and sandstone

Depth: 6374 feet

Thickness: 140 feet

Wingate Formation: (Injection interval)

Sandstone and shale

Depth: 6514

Thickness: 385

Chinle Formation: (Confining Bed)

Shale

Depth: 6899

Thickness: 100

Lateral extent for all 3 formations is at least 20 miles in all directions

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**(281) 561-4894**

**SWD #5**

**Requirements R649 - 5 - 2 - 2.11**

A review of the mechanical condition of each well within a 1/2 mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

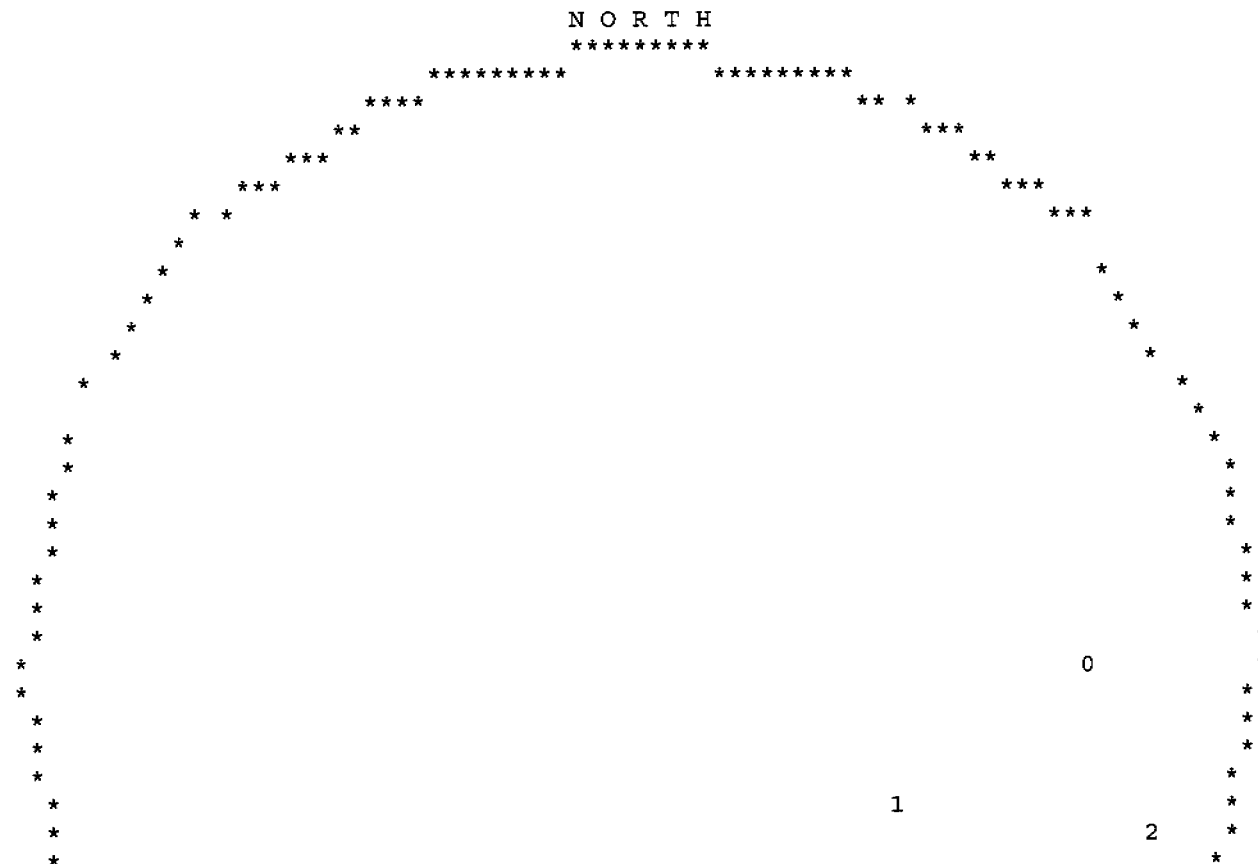
There are currently no other wells located within the 1/2 mile radius of exposure.

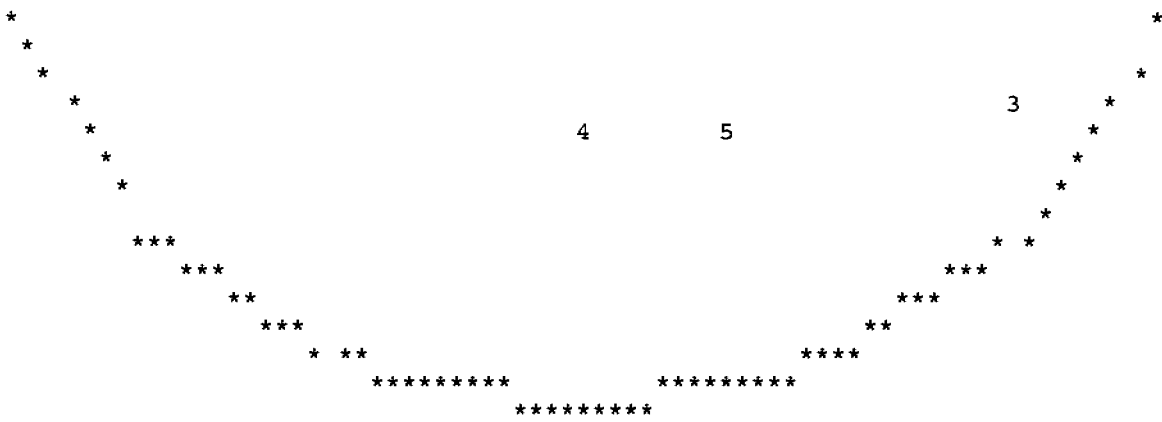
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PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS  
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
				DIAMETER DEPTH YEAR LOG	NORTH EAST CNR SEC TWN RNG B&M
0	93 1135	2.0000	.00	Underground Drain	N 40 W 20 S4 24 17S 8E SL
				WATER USE(S): IRRIGATION	PRIORITY DATE: 00/00/18
				Guymon, Estella Geary	Huntington
1	93 1135	2.0000	.00	Underground Drain	S 1150 E 1000 NW 25 17S 8E SL
				WATER USE(S): IRRIGATION	PRIORITY DATE: 00/00/18
				Guymon, Estella Geary	Huntington
2	93 981	1.1300	.00	Rowley Hollow	S 1320 E 650 N4 25 17S 8E SL
				WATER USE(S): IRRIGATION	PRIORITY DATE: 02/23/19
				McElprang, Lee	Huntington
				160 South 400 West	
3	93 1135	2.0000	.00	Underground Drain	N 2680 W 30 S4 25 17S 8E SL
				WATER USE(S): IRRIGATION	PRIORITY DATE: 00/00/18



Guymon, Estella Geary

Huntington

4	93 1565	.0150	.00	6	100 - 1000	S	150	W	1170	E4	26	17S	8E	SL
	WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING										PRIORITY DATE: 04/04/19:			
	Bishop, Peggy										American Fork			
	270 East State Road													
5	93 1566	.0150	.00	6	100 - 1000	S	150	E	150	W4	25	17S	8E	SL
	WATER USE(S): IRRIGATION STOCKWATERING										PRIORITY DATE: 04/04/19:			
	Bishop, Peggy										American Fork			
	270 East State Road													

---

## Michael Hebertson - RE: Interpretation from SWD #5

---

**From:** "Kephart, Ian M" <kephaim@ChevronTexaco.com>  
**To:** "Michael Hebertson" <MICHAELHEBERTSON@utah.gov>  
**Date:** 7/1/02 3:02 PM  
**Subject:** RE: Interpretation from SWD #5

---

Mike,

Thanks for the log interpretation. I agree with Ethan's prognosis. When it comes to cross-over on Neutron-Density curves, our geologists typically look for an "hour glass" type shape in the cross-over, which is a better indication of gas bearing sands. This is typically looked for in our Ferron sands for instance. This where the Density and Neutron cross-over and diverge from each other. For the most part in the Upper Navajo in the SWD #5, the Density-Neutron track each other as you move through the sand.

I am currently addressing the red-letter items of the UIC analysis form.

Ian

-----Original Message-----

From: Michael Hebertson [mailto:MICHAELHEBERTSON@utah.gov]  
Sent: Wednesday, June 26, 2002 9:24 AM  
To: Kephart, Ian M  
Subject: Fwd: Interpretation from SWD #5

Ian,

If you have any questions about this call and we can discuss your concerns.

I finally got around to making an interpretation on the logs from SWD #5. From my investigation into the curious crossover from 6000-6250, I have come up with an answer that is comprised of two parts.

The first, and simpler, part is related to the parameters from which the log was computed. Originally the logs were computed using a sandstone matrix with a matrix density of 2.68 g/cc. This value is typically used in shaly sands, however, the sandstone in the interval seems quite clean. My initial reaction was to recompute the logs with a matrix density of 2.65 g/cc for a clean sand. This significantly reduced the amount of crossover between NPOR and DPHZ. However, there were still quite a few intervals where the crossover still appeared.

The second part of the interpretation consisted of looking at two things: the caliper curve (HCAL) and the density correction curve (HDRA). The sections where the crossover was excessive shared the same characteristics with respect to HCAL & HDRA. It seems that in these sections, the caliper was actually reading less than the bit size with which the hole was drilled. This means that there is some mud cake standoff. In turn, this means that the density tool measurement is affected by the mud cake - it is a very shallow measurement tool so the density measurement will be lowered, which means density porosity will be higher (which is the case). The neutron porosity tool reads deeper into the formation, therefore, it is not affected as dramatically by nominal changes in hole conditions (this measurement you can trust). The HDRA curve indicates how much processing & correction was involved to produce the final density output. Anytime this curve deviates from zero correction, it means that something is affecting the density measurement.

In conclusion, the better matrix density choice for that clean sand interval is 2.65 g/cc; in regards to the caliper, it is difficult to say exactly what is happening in the hole in that interval, but we know that the caliper is reading less than the bit size (indicating mud cake). Also, there could be some superficial fluid-filled cracks & fissures that the caliper is unable to detect - this would certainly affect the density measurement as well (i.e. it would show higher density porosity).

I hope that this sheds some light on the situation. If you need anything else, please feel free to let me know.

Take care,  
Ethan

**Ethan Chabora**

Field Engineer

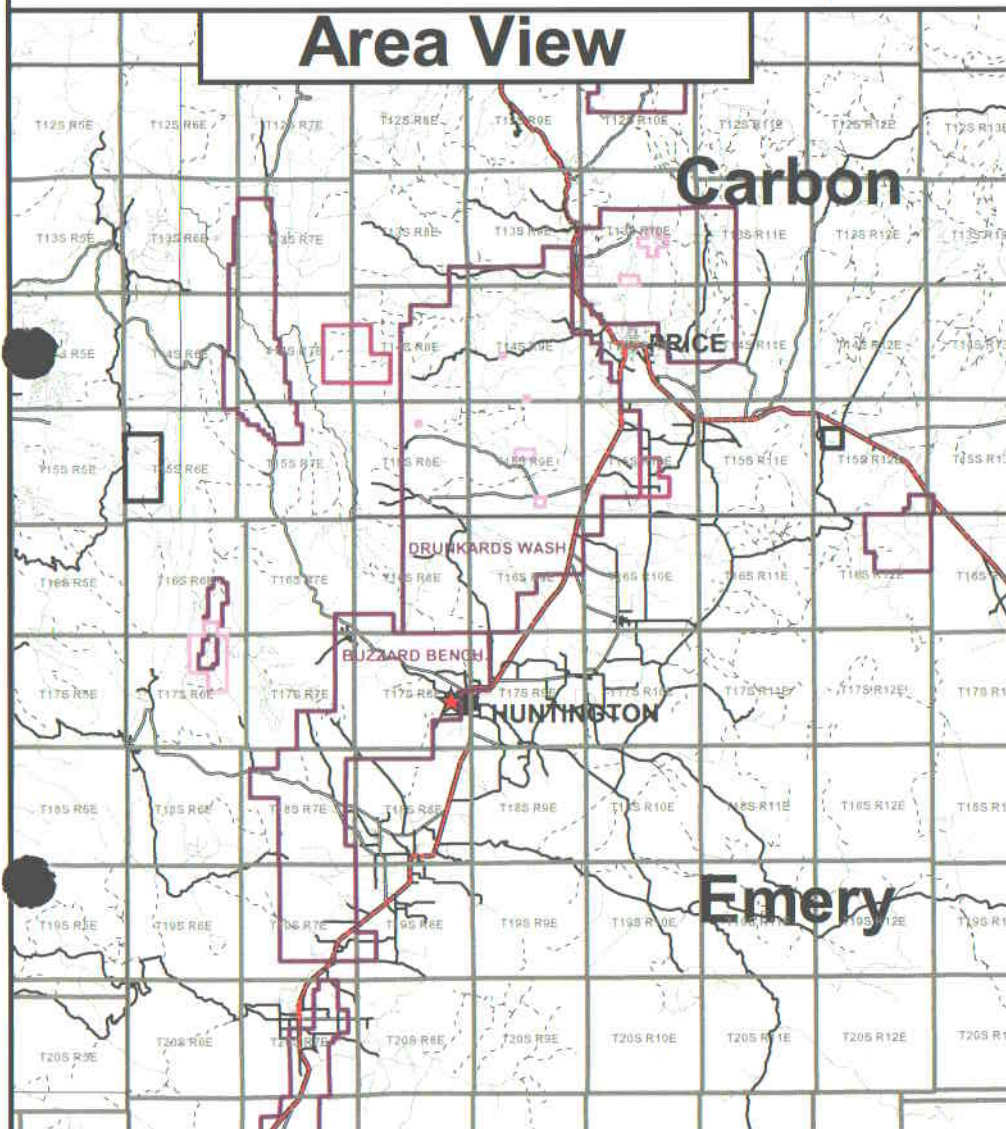
Schlumberger Reservoir Evaluation - Wireline  
Office: (435) 789-3394

**Mobile: (435) 790-1570**

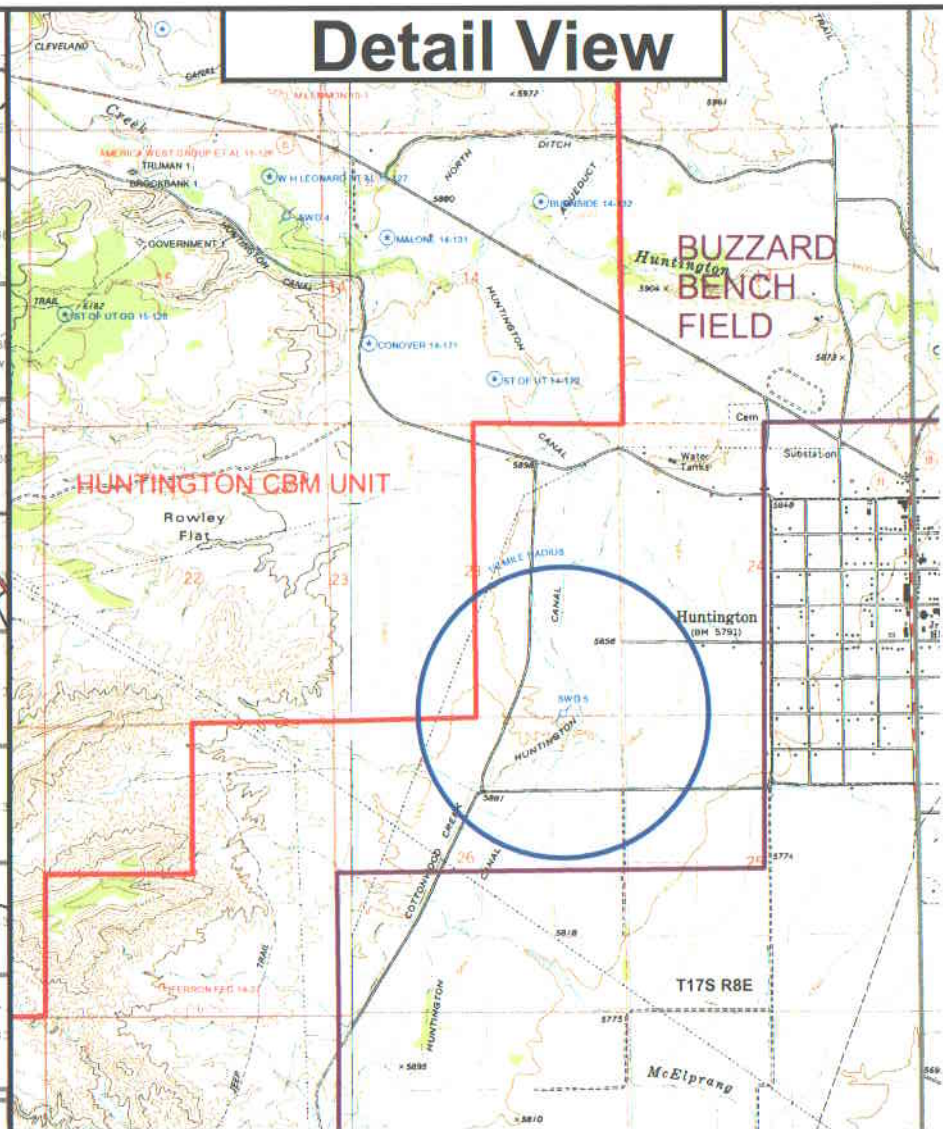
**E-mail: [echabora@vernal.oilfield.slb.com](mailto:echabora@vernal.oilfield.slb.com)**

# Wellsite Location Map: CHEVRON TEXACO SWD #5

## Area View



## Detail View



### Well Status

- |                     |                 |
|---------------------|-----------------|
| GAS INJECTION       | SHUT-IN GAS     |
| GAS STORAGE         | SHUT-IN OIL     |
| LOCATION ABANDONED  | TEMP. ABANDONED |
| NEW LOCATION        | TEST WELL       |
| PLUGGED & ABANDONED | WATER INJECTION |
| PRODUCING GAS       | WATER SUPPLY    |
| PRODUCING OIL       | WATER DISPOSAL  |

### Land Status

- |                     |
|---------------------|
| Private Not Classed |
| Forest Service      |
| BLM                 |
| State Lands         |
| Native American     |
| Private             |
| Military            |
| National Parks      |
| State Parks         |

- |                     |
|---------------------|
| State Wilderness    |
| National Recreation |
| US Wildlife         |
| Wilderness          |
| Bankhead Jones      |
| Sovereign Lands     |
| Water               |
| Intermittent Water  |



Prepared By: K.M. Hebertson



Utah Oil Gas and Mining

Texaco Exploration and  
Production Inc.  
MidContinent Business Unit  
11111 S. Wilcrest  
Houston, TX 77099  
Tel 281 561 4894  
kephaim@chevrontexaco.com

Ian M. Kephart  
Production Engineer  
CoalBed Methane Team

**ChevronTexaco**

August 1, 2002

Mr. Mike Hebertson  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

**Subject:** Application for Injection Well - UIC Form 1  
RG49-5-2.2.7 Water Analysis  
Texaco E&P Inc. Salt Water Disposal Well - SWD #5  
SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hebertson:

Enclosed for your review is a water analysis of the Ferron water in Huntington, along with a compatibility analysis between the Ferron produced water and the Navajo water.

You can see from this analysis that the scaling tendency towards Calcium Carbonate ( $\text{CaCO}_3$ ) is very likely for both waters. However, when mixed the Ferron water does not make the scaling tendency of the Navajo any higher, in fact it somewhat improves the Navajo water. There is also a scaling tendency towards Barium Sulfate in the Navajo, however the amount of this scale (lbs/1000 bbl) is insignificant compared to Calcium Carbonate and the relative size of the reservoir.

If you have any questions or require additional assistance, please contact me at (281) 561-4894.  
Thank you.

Sincerely,

  
Ian M. Kephart

Enclosures

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AUG 05 2002

DIVISION OF  
OIL, GAS AND MINING



# COMMERCIAL TESTING & ENGINEERING CO.

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P.O. BOX 1020  
HUNTINGTON, UT 84528  
TEL: (435) 653-2311  
FAX: (435) 653-2436  
www.comlaco.com

July 31, 2002

TEXACO EXPLORATION  
P.O. BOX 618  
ORANGEVILLE UTAH 84537  
RON WIRTH

Sample identification by  
TEXACO EXPLORATION

ID: SWD #4 - Huntington Ferron  
Composite

Kind of sample Water  
reported to us

RECEIVED 0925  
SAMPLED 0830

Sample taken at WINGATE FORMATION

Sample taken by DAVE PARTEZ

STRONTIUM TOTAL RAW AT DENVER LAB

Date sampled July 9, 2002

Page 1 of 1

Date received July 9, 2002

Analysis report no. 59-24245

Parameter	Result	MRL	Units	Method	Analysed Date/Time/Analyst
Acidity	157	5	mg/l as CaCO <sub>3</sub>	D1067-92	07-15-2002 1315 SC
Alkalinity, Bicarbonate	6417	5	mg/l as HCO <sub>3</sub>	EPA 310.1	07-09-2002 1300 SC
Alkalinity, Carbonate	<5	5	mg/l as CO <sub>3</sub>	EPA 310.1	07-09-2002 1300 SC
Alkalinity, Total	5260	5	mg/l as CaCO <sub>3</sub>	EPA 310.1	07-09-2002 1300 SC
Calcium	125	1	mg/l	EPA 215.1	07-16-2002 0820 MK
Chloride	13347.3	0.5	mg/l	EPA 300.0	07-10-2002 1054 DI
Conductivity	40100		umhos/cm	SM2510-B	07-10-2000 0730 SC
Density	1.01		g/ml		07-10-2000 0730 SC
Hardness, Total	502		mg/l as CaCO <sub>3</sub>	SM2340-B	07-18-2002 1500 SJ
Iron, Total	11.6	0.1	mg/l	EPA 236.1	07-16-2002 1052 MK
Magnesium, Total	46	1	mg/l	EPA 242.1	07-16-2002 0838 MK
Nitrogen, Ammonia	3.1	0.1	mg/l as N	EPA 350.3	07-15-2002 0907 SC
Nitrogen, Nitrate	<3.00	1.05	mg/l as N	EPA 300.0	07-10-2002 1054 DI
Nitrogen, Nitrite	<3.00	1.05	mg/l as N	EPA 300.0	07-10-2002 1054 DI
pH	7.22		pH units	EPA 150.1	07-09-2002 1200 SC
Potassium, Total	74	1	mg/l	EPA 258.1	07-16-2002 0940 MK
Sodium, Total	11600	1	mg/l	EPA 273.1	07-16-2002 1026 MK
Solids, Total Dissolved	26668	10	mg/l	EPA 160.1	07-10-2002 0900 SC
Solids, Total Suspended	60	5	mg/l	EPA 160.2	07-10-2002 0900 SC
Strontium	10.82	.01	mg/l	EPA 200.7	07-30-2002 1922 SK
Sulfate	5	0.5	mg/l	EPA 300.0	07-10-2002 1054 DI

Respectfully submitted,  
COMMERCIAL TESTING & ENGINEERING CO.

*Carl Bero*

Huntington Laboratory

RECEIVED MEMBER  
ACIL

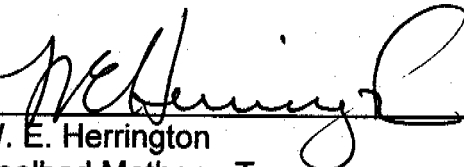
AUG 05 2002

DIVISION OF  
OIL, GAS AND MINING

**SWD #5  
101' FSL, 1108' FEL  
Section 23, Township 17 South, Range 8 East  
Emery County, Utah**

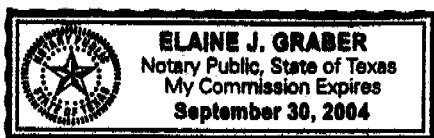
I, W. E. Herrington, Area Landman for Chevron U.S.A. Inc., hereby certify the following:

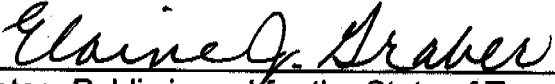
A copy of the permit application for the above captioned salt water disposal well was mailed via certified mail to all surface owners and operators located within a one-half (½) mile radius exposure of this location.

  
\_\_\_\_\_  
W. E. Herrington  
Coalbed Methane Team  
Chevron U.S.A. Inc., successor to Texaco  
Exploration and Production Inc.

Subscribed and sworn before me this 12<sup>th</sup> day of September, 2002.

Witness my hand and official seal.



  
\_\_\_\_\_  
Notary Public in and for the State of Texas

My Commission Expires: \_\_\_\_\_

**RECEIVED**

SEP 13 2002

**DIVISION OF  
OIL, GAS AND MINING**





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

[www.nr.utah.gov](http://www.nr.utah.gov)

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

September 19, 2002

SENT VIA FAX and Regular Mail

Emery County Progress  
PO Box 589  
Castle Dale, UT 84513

RE: Notice of Agency Action - Cause No. UIC 296.1

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Earlene Russell  
Executive Secretary

encl.



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Governor

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Executive Director

Lowell P. Braxton  
Division Director

September 19, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

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Earlene Russell  
Executive Secretary

encl.

# TRANSACTION REPORT

P. 01

SEP-20-2002 FRI 01:30 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
SEP-20	01:29 PM	2372776	43"	2	SEND	OK	917	

TOTAL : 43S PAGES: 2



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Salt Lake City, Utah 84114-5801

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Sincerely,

**From:** "naclegal " <naclegal@mail.nacorp.com>  
**To:** <EARLENERUSSELL@utah.gov>  
**Date:** 9/20/02 1:37PM  
**Subject:** Thank you. We have received your legal notice and will process it shortly. If you have an

Thank you. We have received your legal notice and will process it shortly. If you have any questions, please call 801-237-2720.

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## Public Notice

**County:** Salt Lake  
**Printed In:** Salt Lake Tribune  
**Printed On:** 2002/09/25

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### Public Notice:

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH ---ooOoo--- IN THE MATTER OF THE : NOTICE OF AGENCY APPLICATION OF TEXACO ACTION E & P FOR ADMINISTRATIVE : APPROVAL OF THE SWD #5 CAUSE NO. UIC 296.1 WELL LOCATED IN SECTION : 23, TOWNSHIP 17 SOUTH, RANGE 8 EAST, EMERY : COUNTY, UTAH, AS A CLASS II INJECTION WELL : ---ooOoo--- THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER. Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Texaco Exploration & Production for administrative approval of the SWD #5 well, located in Section 23, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures. Selective zones in the Navajo, Kayenta, & Wingate Formations is proposed for water injection. The maximum allowable injection pressure and rate will be determined based on test information that will be submitted by Texaco. Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5334. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE  
APPLICATION OF TEXACO E & P FOR  
ADMINISTRATIVE APPROVAL OF THE  
SWD #5 WELL LOCATED IN SECTION  
23, TOWNSHIP 17 SOUTH, RANGE 8  
EAST, EMERY COUNTY, UTAH, AS A  
CLASS II INJECTION WELL

NOTICE OF AGENCY  
ACTION

CAUSE NO. UIC 296.1

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED  
MATTER.

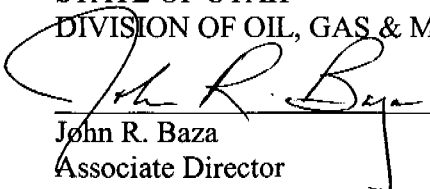
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Dated this 18<sup>th</sup> day of September, 2001.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

**Texaco Exploration and Production, Incorporated**  
**SWD #5**  
**Cause No. UIC 296.1**

Publication Notices were sent to the following:

Texaco E&P, Inc  
3300 North Butler Street, Suite 100  
Farmington, NM 87401

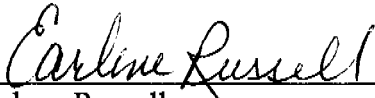
Emery County Progress  
PO Box 589  
Castle Dale, UT 84513

via E-Mail and Facsimile (801) 237-2776  
Salt Lake Tribune  
PO Box 45838  
Salt Lake City, UT 84145

Moab District Office  
Bureau of Land Management  
82 East Dogwood  
Moab, UT 84532

Emery County Planning  
95 East Main  
Castle Dale, UT 84513-0417

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
\_\_\_\_\_  
Earlene Russell  
Executive Secretary  
September 19, 2002

demonstrate at the hearing how this matter affects their interests. Dated this 18th day of September, 2001. STATE OF UTAH DIVISION OF OIL, GAS & MINING /s/ John R. Baza Associate Director 8201R4SG

Public Notice ID: 1258688.HTM

---

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**From:** "NAC LEGAL" <naclegal@nacorp.com>  
**To:** "Earlene Russell" <EARLENERUSSELL@utah.gov>  
**Date:** 9/20/02 2:40PM  
**Subject:** Re: Cause UIC 296.1

Please check your ad in Wednesday's paper.  
Thank you.

----- Original Message -----

From: "Earlene Russell" <EARLENERUSSELL@utah.gov>  
To: <naclegal@nacorp.com>  
Sent: Friday, September 20, 2002 1:34 PM  
Subject: Cause UIC 296.1

143 SOUTH MAIN ST.  
P.O. BOX 45838  
SALT LAKE CITY, UTAH 84145  
FED. TAX I.D.# 87-0217663

# Newspaper Agency Corporation

The Salt Lake Tribune



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DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	09/25/02

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OCT 03 2002

DIVISION OF  
OIL, GAS AND MINING

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201R4SG1
SCHEDULE	
START 09/25/02 END 09/25/02	
CUST. REF. NO.	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
59 LINES 2.00 COLUMN	
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	136.88
TOTAL COST	
136.88	

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---00000---

IN THE MATTER OF THE : NOTICE OF AGENCY  
APPLICATION OF TEXACO : ACTION  
E & P FOR ADMINISTRATIVE : CAUSE NO. UIC 296.1  
APPROVAL OF THE SWD #5 :  
WELL LOCATED IN SECTION :  
23, TOWNSHIP 17 SOUTH, :  
RANGE 8 EAST, EMERY :  
COUNTY, UTAH, AS A CLASS :  
II INJECTION WELL :

---00000---

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Dated this 18th day of September, 2001.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ John R. Baza  
Associate Director



8201R4SG  
824 West Big Mountain Drive  
Taylorsville, Utah 84123  
My Commission Expires  
January 23, 2006  
State of Utah

## AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY  
ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA  
DIV OF OIL-GAS & MINING WAS PUBLISHED BY  
CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET  
PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION  
IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 09/25/02 END 09/25/02

SIGNATURE

*[Signature]*

DATE 09/25/02

**THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"**  
**PLEASE PAY FROM BILLING STATEMENT.**

Fund	Agency	Low Org	Approp Unit	Object	Mine Activity	Grant Category	Project
100	360	2827	REC	6131		GEO2	NUAD201G

# AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

SS.

County of Emery,)

I, Ken Larson, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 1st day of October, 2002 and that the last publication of such notice was in the issue of such newspaper dated the 1st day of October, 2002.

*Ken G. Larson*

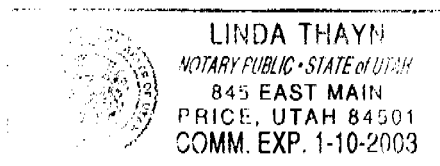
Ken G Larson - Publisher

Subscribed and sworn to before me this 1st day of October, 2002.

*Linda Thayne*

Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$ 73.06



## **NOTICE OF AGENCY ACTION CAUSE NO. UIC 296.1**

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

IN THE MATTER OF THE  
APPLICATION OF TEXACO E & P FOR  
ADMINISTRATIVE APPROVAL OF THE  
SWD #5 WELL LOCATED IN SECTION  
23, TOWNSHIP 17 SOUTH, RANGE 8,  
EAST, EMERY COUNTY, UTAH, AS A  
CLASS II INJECTION WELL

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Dated this 18th day of September, 2002.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
-s- John R. Baza  
Associate Director

Published in the Emery County Progress October 1, 2002.

# RECEIVED

OCT 04 2002

DIVISION OF  
OIL, GAS AND MINING

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*Ken G. Larson*

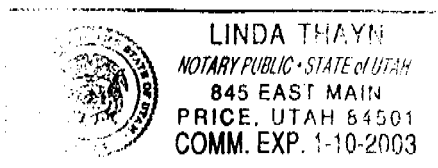
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Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$ 73.06



Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

## NOTICE OF AGENCY ACTION CAUSE NO. UIC 296.1

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Dated this 18th day of September, 2002.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
-s- John R. Baza  
Associate Director

Published in the Emery County Progress October 1, 2002.

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OCT 04 2002

DIVISION OF  
OIL, GAS AND MINING

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT STATEMENT OF BASIS**

**Applicant:** Chevron USA, Inc.

**Well:** SWD #5

**Location:** T17S, R8E, S23, Emery Co., UT

**API:** 4301530510

**Ownership Issues:**

The well is located on Fee surface and mineral estates. An affidavit of notification of operators, owners and surface owners within a half-mile radius has been provided.

**Well Integrity:**

**Description of the Casings and Cement:**

**CASING PROGRAM**

<b><u>String Type</u></b>	<b><u>Hole Size</u></b>	<b><u>Depth</u></b>	<b><u>Feet</u></b>	<b><u>Casing Diameter</u></b>	<b><u>Weight</u></b>	<b><u>Grade</u></b>	<b><u>Connection Type</u></b>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	304'	304'	13 3/8"	48#	H-40	LT&C
Intermediate	12 1/4"	3010'	3010'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	7000'	7000'	7"	23#	N-80	LT&C

**CEMENT PROGRAM**

<b><u>String Type</u></b>	<b><u>DV Depth</u></b>	<b><u>Stage Lead/Tail</u></b>	<b><u>Cement Bottom</u></b>	<b><u>Cement Top</u></b>	<b><u>Number Sacks</u></b>	<b><u>Cement Type</u></b>	<b><u>Cement Yield</u></b>	<b><u>Cement Weight</u></b>
Surface			304'	Surface	375	G	1.15	15.8
Intermediate		Lead	2000'	Surface	345	G	1.15	14.2
		Tail	3010'	2000'	170	RFC 10-2	1.16	14.2
Production	5845'	2 <sup>nd</sup> Stage	5845'	Surface	455	Hi-Lift-G	1.91	12.5
		1 <sup>st</sup> Stage	7000'	5845'	282	G	1.15	15.8

The UltraSonic Imager USI Log was not run with the casing under pressure, and no conventional Cement Bond Log was run. An examination of the referenced USI log revealed that the upper confining layers of Anhydrite in the well had generally been well cemented (well in excess of 90%) for nearly 300 feet above the injection

perforations, including the entire Carmel Formation. The casing is also acceptably cemented for more than 120 feet below the bottom perforation of the injection zone.

This should be adequate to prevent any upward or downward migration of fluid between the 7-inch casing and the borehole.

The 7-inch production casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone, in a gross interval from 5994 feet to 6690 feet and a Step Rate injection test was run.

#### **Ground Water Protection:**

Moderate quality ground water will probably be encountered in the unconfined Quaternary alluvium aquifer along Huntington Creek, which flows adjacent to the location. Below this is the Blue Gate Shale Member, of the Mancos Shale. The conductor, surface and intermediate casings have all been set and cemented in place and will adequately protect the shallow alluvial sediments and any possible aquifer. Cement was circulated back to surface for all the casing strings. Other subsurface water is unlikely between the surface alluvium and the Cretaceous-age Ferron Sandstone Member of the Mancos Shale.

The Ferron Sandstone Member, including the associated coal seams provides the source water that will be injected in this well. The Ferron Sandstone is found at 1,883 feet, Total Depth, in the SWD #4 well. Injection water from 42 listed potential source wells will be collected and transferred to the injection site. Analysis of a composite of produced waters, currently being injected, from Chevron's nearby Huntington area coalbed methane production wells, has revealed Total Dissolved Solids levels of 26,668 milligrams per liter.

The Navajo Sandstone in the SWD #5 provided water samples which tested at 16,128 milligrams per liter Total Dissolved Solids, as measured by an independent

laboratory. Water from the Wingate Sandstone was tested as containing 63,404 milligrams per liter of Total Dissolved Solids. Testing was conducted on the water samples on February 11, 2002, by the local (Huntington, UT) laboratories of Commercial Testing & Engineering Company.

The Navajo Sandstone is a known fresh water aquifer at many locations in the state. In the San Rafael Swell area, the quality of Navajo Sandstone ground water is generally best near the outcrop and recharge areas, becoming poorer with increased depth and distance from recharge [Utah State Department of Natural Resources (DNR) Technical Publication # 78]. This premise has been supported by test results on samples taken from the subject well and other disposal wells in the field. Injection of produced water from the Ferron Formation will result in the dilution and mixing of the more saline Navajo Formation waters. The distance to the Navajo outcrop from this location is over 16 miles to the southeast. Analysis of samples of injection zone produced waters from the SWD #5 for scaling tendencies have ~~not~~ been filed, however the area has not had compatibility problems that cannot be treated.

The proposed operation is expected to have little effect on the overall hydrology of the aquifer because of its great extent in comparison with the volume of fluid that will likely be injected over time. According to DNR Technical Publication #78, the Navajo Sandstone alone contains approximately 94,000,000 acre-feet of water in transient storage. Injection at a rate of 12,000 barrels per day for 10 years would result in the injection of approximately 6,775 acre-feet of produced water. This equates to about 0.007% of the water already in storage in the Navajo Sandstone.

During a step rate injection test conducted by Chevron USA, Inc on the SWD #5 well the apparent formation parting pressure was measured at approximately 3,250 psia. This was measured while injecting at a rate of about 3.3 barrels per minute or

about 4,752 barrels per day. The operator has requested a rate of 12,000 BPD and a maximum injection pressure of 1,750 psig. The proposed maximum injection pressure is below the measured formation parting pressure.

Several reports, which have been prepared by Tesseract Corporation and Stim-Lab, document that fracture propagation occurs in a downward direction in the proposed injection zones. This interval is confined by several impermeable Carmel Formation anhydrite intervals overlying the Navajo Sandstone. These anhydrites make up a structurally plastic seal, which attenuates the upward propagation of fractures, forming the upper bounding beds of the injection zone. The step rate test indicates that the operator could inject the target zones with surface pressures approaching 3,250 psia without causing a breach in the anhydrite confining beds. It is also concluded from the UltraSonic Imager USI Log that the cement coverage through these zones is good

After reviewing the application and documentation submitted by Chevron USA, Inc, I find that the injection of Ferron Sandstone produced waters into the proposed zones at the SWD #5 location is likely to result in insignificant dilution and mixing with saline waters present in the target injection zones. After injection ceases, increased pressure about the wellbore will abate over time. It is therefore to be concluded that no long term negative surficial or ground water impacts are anticipated resultant of the proposed injection operation. Saline Ferron Sandstone produced waters will be safely sequestered in deeply buried, extensive and geologically-sealed aquifers containing ground water which is already higher in Total Dissolved Solids than USDW standards.

#### **Oil/Gas & Other Mineral Resources Protection:**

The Ferron coal/gas zone is protected by casings and cements, which have been



considered in the Well Integrity portion of this report. No other known potentially producible mineral or hydrocarbon zones were observed in the well. The injection zone is isolated over 4,300 feet below the productive interval of the Ferron Sandstone and good to excellent cement bond covers a sufficient length of hole to protect the shallower producing strata.

The well records of the Division of Oil, Gas and Mining, and State Water Rights, document <sup>NO 24</sup> other producing Gas, Oil, or Water wells within the half mile area of review of the proposed disposal well.

#### **Bonding:**

Chevron USA, Inc. has an \$80,000 surety bond in place, which ensures plugging of this well.

#### **Actions Taken and Further Approvals Needed:**

Notice of this application was published in the Salt Lake Tribune and the Emery County Progress (Castle Dale, UT). In addition, copies of the notice were provided to the EPA, BLM (Moab, UT), Emery County Planning, and Chevron USA, Inc. The notice stated the lately- amended proposed interval for injection to be selective zones in the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone. The actual gross perforated interval descends from ~~6,561~~ feet to ~~7,186~~ feet, <sup>5994</sup> <sup>6690</sup> ~~7186~~ feet.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies. The operator will need to provide proof of mechanical integrity before a permit will be issued. In addition, the operator must have an analysis made of a representative Ferron Member composite produced water sample from the

Huntington area, reasonably soon after this may be easily accomplished. The Division staff recommends approval of this application contingent upon no additional or unforeseen information being presented which is relevant to this analysis or modifies the data presented herein.

Reviewer(s): K. Michael Hebertson

Date: 21 October, 2002



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
(801) 359-3940 fax  
(801) 538-7223 TTY  
www.nr.utah.gov

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

October 23, 2002

Chevron USA, Inc.  
PO Box 618  
Orangeville UT 84537

Re: Application for Class II Injection Permit, SWD #5 Well, Section 23, Township 17 South, Range 8 East, Emery County, Utah

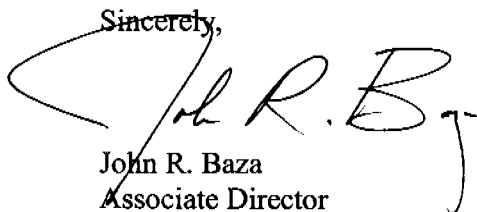
Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Chevron USA, Inc.
3. A Mechanical Integrity Test of the wellbore under static operating conditions.

If you have any questions regarding this approval or the necessary requirements, please contact Michael Hebertson at (801) 538-5333.

Sincerely,



John R. Baza  
Associate Director

KMH/er

cc: Dan Jackson, EPA  
Emery County Commission  
Bureau of Land Management, Moab Field Office



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-296.1

**Operator:** Chevron USA, Inc.

**Wells:** SWD #5

**Location:** Section 23, Township 17 South, Range 8 East,  
County: Emery

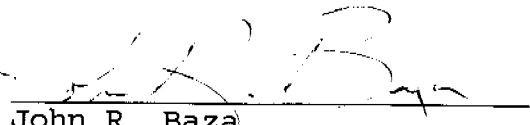
**API No.:** 43-015-30510

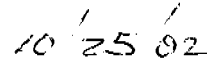
**Well Type:** Disposal

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on October 23, 2002.
2. Maximum Allowable Injection Pressure: 1,750 psig
3. Maximum Allowable Injection Rate: 4,752 BWPD or restricted by pressure limitation.
4. Injection Interval: 5,994 feet to 6,690 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:

  
John R. Baza  
Associate Director

  
10/25/02  
Date

KMH/er

cc: Dan Jackson, Environmental Protection Agency  
Bureau of Land Management, Moab Field Office  
Emery County Planning

Texaco Exploration and  
Production Inc.  
MidContinent Business Unit  
11111 S. Wilcrest  
Houston, TX 77099  
Tel 281 561 4894  
kephaim@chevrontexaco.com

Ian M. Kephart  
CoalBed Methane Team

**ChevronTexaco**

November 11, 2002

Mr. Mike Hebertson  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

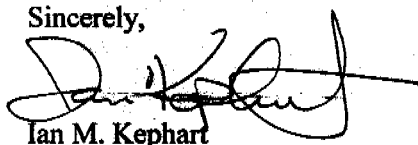
**Subject:     Application for Class II Injection Permit UIC—296.1**  
Chevron, USA. Salt Water Disposal Well - SWD #5  
SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hebertson:

Thank you for the approval of our injection permit for the SWD #5. This letter is a follow up to our phone conversation on Friday, November 8, 2002. As per our conversation it is our understanding that the UIC permit (Cause # UIC-296.1) is limited only by the injection pressure of 1750 psi, and that the expected rates could be much higher and still be below the maximum 1750 psi injection pressure.

Thanks again for the approved permit. If you have any questions or concerns please call.

Sincerely,

  
Ian M. Kephart

Cc: Wellfile

**RECEIVED**

NOV 13 2002

DIVISION OF  
OIL, GAS AND MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

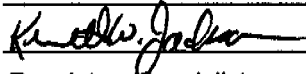
Well Name and Number SWD 5 Permit # UIC-296.1	API Number 4301530510
Location of Well Footage : 101' FSL 1108' FEL County : Emery QQ, Section, Township, Range: SESE 23 11S 7E State : UTAH	Field or Unit Name Buzzard Bench Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 8/17/2004

CURRENT OPERATOR

N0210

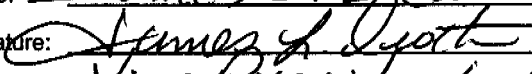
Company: Chevron U.S.A. Inc.  
Address: 11111 S. Wilcrest  
city Houston state Tx zip 77099  
Phone: (281) 561-4991  
Comments:

Name: Kenneth W. Jackson  
Signature:   
Title: Regulatory Specialist  
Date:

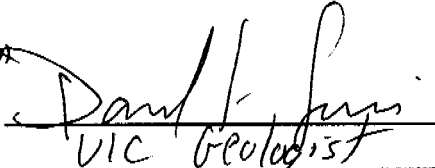
NEW OPERATOR

N2615

Company: XTO ENERGY INC.  
Address: 2700 Farmington Ave. Bldg K. Suite 1  
city Farmington state NM zip 87401  
Phone: (505) 324-1090  
Comments:

Name: James L. Deaith  
Signature:   
Title: Vice President - Land  
Date: 8/16/04

(This space for State use only)

Transfer approved by:   
Title: VIC Geologist

Approval Date: 9/28/04

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Various Leases
2. NAME OF OPERATOR: XTO ENERGY INC. <i>N2615</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 2700 Farmington Bldg K, Suite _____ CITY Farmington STATE NM ZIP 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: Emery		8. WELL NAME and NUMBER: See attached list
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: UTAH		9. API NUMBER: Multiple
		10. FIELD AND POOL, OR WILDCAT: Buzzard Bench

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective August 1, 2004, the operator changed from Chevron U.S.A. Inc. to XTO ENERGY INC. for all wells on the attached list.

BLM #579173

State and Fee Bond #104312762

*Kenneth W. Jackson*

Kenneth W. Jackson Regulatory Specialist ChevronTexaco for Chevron U.S.A. Inc. *N0210*

NAME (PLEASE PRINT)

*James L. Death*

TITLE

*Vice President Land*

SIGNATURE

*James L. Death*

DATE

*8/16/04*

(This space for State use only)

APPROVED

*9/30/2004*

*Earlene Russell*

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED

SEP 28 2004

DIV. OF OIL, GAS & MINING

API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	TwN-Rng
43-015-30242-00-00	L M LEMMON 10-1	Gas Well	EMERY	SESE	10	17S-8E
43-015-30243-00-00	FEDERAL B21-3	Gas Well	EMERY	NESW	21	19S-7E
43-015-30244-00-00	FEDERAL A26-2	Gas Well	EMERY	SESW	26	18S-7E
43-015-30245-00-00	FEDERAL C23-8	Gas Well	EMERY	NENW	23	18S-7E
43-015-30246-00-00	FEDERAL A26-4	Gas Well	EMERY	SWSE	26	18S-7E
43-015-30247-00-00	FEDERAL A35-6	Gas Well	EMERY	NWNW	35	18S-7E
43-015-30248-00-00	FEDERAL A35-5	Gas Well	EMERY	NWNE	35	18S-7E
43-015-30249-00-00	FEDERAL A34-7	Gas Well	EMERY	NENE	34	18S-7E
43-015-30258-00-00	UTAH FED P 10-47	Gas Well	EMERY	NWNW	10	18S-7E
43-015-30259-00-00	A L JENSEN 27-9	Gas Well	EMERY	SESE	27	21S-6E
43-015-30268-00-00	ST OF UT T 36-10	Gas Well	EMERY	SWNE	36	16S-7E
43-015-30270-00-00	ST OF UT U 2-11	Gas Well	EMERY	NWNW	2	18S-7E
43-015-30272-00-00	SWD 1	Water Disposal Well	EMERY	SWNW	24	18S-7E
43-015-30274-00-00	UTAH FED S 8-46	Gas Well	EMERY	SESW	8	18S-7E
43-015-30275-00-00	UTAH FED R 9-45	Gas Well	EMERY	NWNE	9	18S-7E
43-015-30276-00-00	UTAH FED P 10-42	Gas Well	EMERY	NWNE	10	18S-7E
43-015-30277-00-00	UTAH FED P 10-43	Gas Well	EMERY	NWSE	10	18S-7E
43-015-30280-00-00	UTAH FED Q 4-44	Gas Well	EMERY	SESE	4	18S-7E
43-015-30282-00-00	UTAH FED D 34-12	Gas Well	EMERY	SESE	34	17S-7E
43-015-30285-00-00	UTAH FED D 35-13	Gas Well	EMERY	SWSW	35	17S-7E
43-015-30286-00-00	UTAH FED D 35-14	Gas Well	EMERY	NWNW	35	17S-7E
43-015-30287-00-00	UTAH FED D 35-15	Gas Well	EMERY	SWSE	35	17S-7E
43-015-30292-00-00	UTAH FED M 6-25	Gas Well	EMERY	SENE	6	17S-8E
43-015-30294-00-00	UTAH FED H 6-21	Gas Well	EMERY	SESW	6	20S-7E
43-015-30303-00-00	SWD 3	Water Disposal Well	EMERY	SENE	11	18S-7E
43-015-30306-00-00	ST OF UT U 2-48	Gas Well	EMERY	NWNE	2	18S-7E
43-015-30308-00-00	ST OF UT U 2-50	Gas Well	EMERY	NESW	2	18S-7E
43-015-30309-00-00	ST OF UT U 2-49	Gas Well	EMERY	NWSE	2	18S-7E
43-015-30310-00-00	L & M CURTIS 10-58	Gas Well	EMERY	SWSW	10	18S-7E
43-015-30311-00-00	ST OF UT X 16-66	Gas Well	EMERY	SENW	16	18S-7E
43-015-30312-00-00	ST OF UT X 16-65	Gas Well	EMERY	NWNE	16	18S-7E
43-015-30313-00-00	U P & L 14-53	Gas Well	EMERY	SESE	14	18S-7E
43-015-30314-00-00	U P & L 14-55	Gas Well	EMERY	NWNW	14	18S-7E
43-015-30315-00-00	U P & L 23-51	Gas Well	EMERY	SENE	23	18S-7E
43-015-30316-00-00	U P & L 24-57	Gas Well	EMERY	NWNW	24	18S-7E
43-015-30318-00-00	D & A JONES 15-68	Gas Well	EMERY	NENW	15	18S-7E
43-015-30319-00-00	D&D CURTIS 14-54	Gas Well	EMERY	SENE	14	18S-7E
43-015-30320-00-00	P & K PEACOCK 8-62	Gas Well	EMERY	SWNE	8	18S-7E
43-015-30321-00-00	PEACOCK TRUST 9-60	Gas Well	EMERY	NWSW	9	18S-7E
43-015-30323-00-00	SWD 2	Water Disposal Well	EMERY	NWNW	14	18S-7E
43-015-30324-00-00	R G NORRIS 14-40	Gas Well	EMERY	NESW	14	18S-7E
43-015-30325-00-00	L & M CURTIS 15-67	Gas Well	EMERY	NENE	15	18S-7E
43-015-30326-00-00	PEACOCK TRUST 8-61	Gas Well	EMERY	NESE	8	18S-7E
43-015-30327-00-00	PEACOCK 7-64	Gas Well	EMERY	NENE	7	18S-7E
43-015-30328-00-00	PEACOCK TRUST 8-63	Gas Well	EMERY	SENW	8	18S-7E
43-015-30329-00-00	D & A JONES 9-59	Gas Well	EMERY	SESE	9	18S-7E
43-015-30381-00-00	UTAH STATE 1-76	Gas Well	EMERY	NWNW	1	18S-7E
43-015-30382-00-00	UTAH STATE 36-78	Gas Well	EMERY	SWSW	36	17S-7E
43-015-30383-00-00	USA 3-74	Gas Well	EMERY	SESE	3	18S-7E
43-015-30384-00-00	USA 3-75	Gas Well	EMERY	NENE	3	18S-7E
43-015-30385-00-00	USA 11-70	Gas Well	EMERY	SWSE	11	18S-7E
43-015-30386-00-00	USA 11-71	Gas Well	EMERY	SWNE	11	18S-7E
43-015-30387-00-00	USA 11-72	Gas Well	EMERY	NWNW	11	18S-7E
43-015-30388-00-00	USA 11-73	Gas Well	EMERY	NWSW	11	18S-7E
43-015-30389-00-00	USA 34-80	Gas Well	EMERY	SENE	34	17S-7E
43-015-30390-00-00	USA 34-82	Gas Well	EMERY	SESW	34	17S-7E
43-015-30393-00-00	ST OF UT EE 06-138	Gas Well	EMERY	NENW	6	17S-9E
43-015-30396-00-00	ST OF UT AA 07-106	Gas Well	EMERY	NWNE	7	17S-8E
43-015-30437-00-00	ST OF UT BB 09-119	Gas Well	EMERY	SESW	9	17S-8E
43-015-30438-00-00	ST OF UT CC 10-124	Gas Well	EMERY	SENE	10	17S-8E
43-015-30439-00-00	ST OF UT DD 31-98	Gas Well	EMERY	NWSW	31	17S-8E
43-015-30440-00-00	FEDERAL T 27-85	Gas Well	EMERY	SENW	27	18S-7E
43-015-30441-00-00	UP&L 06-102	Gas Well	EMERY	NENW	6	17S-8E
43-015-30442-00-00	UP&L 06-104	Gas Well	EMERY	NESE	6	17S-8E
43-015-30443-00-00	WM S IVIE ET AL 09-118	Gas Well	EMERY	SWNE	9	17S-8E



API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	Twn-Rng
43-015-30444-00-00	ST OF UT BB 09-120	Gas Well	EMERY	NESE	9	17S-8E
43-015-30445-00-00	FEDERAL A 26-88	Gas Well	EMERY	SWNW	26	18S-7E
43-015-30446-00-00	FEDERAL A 35-89	Gas Well	EMERY	NWSW	35	18S-7E
43-015-30447-00-00	FEDERAL C 23-84	Gas Well	EMERY	NESW	23	18S-7E
43-015-30448-00-00	FEDERAL P 3-82	Gas Well	EMERY	SESW	3	18S-7E
43-015-30449-00-00	FEDERAL P 3-93	Gas Well	EMERY	SWNW	3	18S-7E
43-015-30450-00-00	FEDERAL T 21-94	Gas Well	EMERY	NENE	21	18S-7E
43-015-30451-00-00	FEDERAL T 22-69	Gas Well	EMERY	NENE	22	18S-7E
43-015-30452-00-00	FEDERAL T 22-83	Gas Well	EMERY	SWSE	22	18S-7E
43-015-30453-00-00	FEDERAL T 22-91	Gas Well	EMERY	NENW	22	18S-7E
43-015-30454-00-00	ST OF UT CC 10-123	Gas Well	EMERY	NWNW	10	17S-8E
43-015-30455-00-00	FEDERAL T 27-86	Gas Well	EMERY	SENE	27	18S-7E
43-015-30456-00-00	FEDERAL T 27-87	Gas Well	EMERY	SESE	27	18S-7E
43-015-30457-00-00	FEDERAL T 27-90	Gas Well	EMERY	NWSW	27	18S-7E
43-015-30458-00-00	ST OF UT FF 10-125	Gas Well	EMERY	NESW	10	17S-8E
43-015-30459-00-00	ST OF UT FF 11-129	Gas Well	EMERY	NWNW	11	17S-8E
43-015-30462-00-00	ST OF UT FF 11-130	Gas Well	EMERY	NWSW	11	17S-8E
43-015-30478-00-00	GARDNER TRUST ET AL 16-121	Gas Well	EMERY	NENE	16	17S-8E
43-015-30479-00-00	ST OF UT BB 05-107	Gas Well	EMERY	SENE	5	17S-8E
43-015-30480-00-00	ST OF UT BB 05-108	Gas Well	EMERY	NWSW	5	17S-8E
43-015-30481-00-00	ST OF UT BB 05-109	Gas Well	EMERY	SENE	5	17S-8E
43-015-30482-00-00	ST OF UT BB 05-110	Gas Well	EMERY	SWSE	5	17S-8E
43-015-30483-00-00	UP&L 06-103	Gas Well	EMERY	NESW	6	17S-8E
43-015-30484-00-00	AMERICA WEST GROUP ET AL 15-126	Gas Well	EMERY	NENW	15	17S-8E
43-015-30485-00-00	W H LEONARD ET AL 15-127	Gas Well	EMERY	NENE	15	17S-8E
43-015-30486-00-00	ROWLEY 08-111	Gas Well	EMERY	SENE	8	17S-8E
43-015-30490-00-00	SWD 4	Water Disposal Well	EMERY	SENE	15	17S-8E
43-015-30495-00-00	SEELEY 08-112	Gas Well	EMERY	NENE	8	17S-8E
43-015-30496-00-00	ST OF UT BB 08-113	Gas Well	EMERY	NWSE	8	17S-8E
43-015-30497-00-00	ST OF UT AA 07-105	Gas Well	EMERY	SWNW	7	17S-8E
43-015-30498-00-00	ST OF UT 01-97	Gas Well	EMERY	SENE	1	18S-7E
43-015-30499-00-00	ST OF UT GG 03-122	Gas Well	EMERY	SWSW	3	17S-8E
43-015-30500-00-00	ST OF UT HH 03-133	Gas Well	EMERY	SWSE	3	17S-8E
43-015-30501-00-00	SEELEY FARMS 09-117	Gas Well	EMERY	NWNW	9	17S-8E
43-015-30502-00-00	ST OF UT GG 15-128	Gas Well	EMERY	NWSW	15	17S-8E
43-015-30503-00-00	ST OF UT BB 04-116	Gas Well	EMERY	SWSE	4	17S-8E
43-015-30504-00-00	ST OF UT GG 04-115	Gas Well	EMERY	NESW	4	17S-8E
43-015-30505-00-00	BURNSIDE 14-132	Gas Well	EMERY	NWNE	14	17S-8E
43-015-30506-00-00	ST OF UT T 36-100	Gas Well	EMERY	NESE	36	16S-7E
43-015-30507-00-00	UT FED KK 01-140	Gas Well	EMERY	SENE	1	17S-7E
43-015-30508-00-00	ST OF UT II 36-96	Gas Well	EMERY	NWSE	36	17S-7E
43-015-30509-00-00	ST OF UT II 36-95	Gas Well	EMERY	NWNE	36	17S-7E
43-015-30510-00-00	SWD 5	Water Disposal Well	EMERY	SESE	23	17S-8E
43-015-30511-00-00	UP&L FED 01-101	Gas Well	EMERY	SENE	1	17S-7E
43-015-30520-00-00	ST OF UT SS 22-165	Gas Well	EMERY	NENE	22	17S-8E
43-015-30521-00-00	ZIONS FED 35-135R (RIG SKID)	Gas Well	EMERY	NESW	35	16S-7E
43-015-30528-00-00	ST OF UT 14-170	Gas Well	EMERY	SWSE	14	17S-8E
43-015-30529-00-00	CONOVER 14-171	Gas Well	EMERY	NWSW	14	17S-8E
43-015-30530-00-00	ST OF UT 36-139	Gas Well	EMERY	NWSW	36	16S-7E
43-015-30533-00-00	ST OF UT FO 02-186	Gas Well	EMERY	NENW	2	17S-8E
43-015-30549-00-00	ST OF UT JJ 03-160	Gas Well	EMERY	NWNW	3	17S-8E
43-015-30550-00-00	ST OF UT 36-138	Gas Well	EMERY	SWNW	36	16S-7E
43-015-30551-00-00	UT FED P 12-153	Gas Well	EMERY	NWNW	12	18S-7E
43-015-30552-00-00	ST OF UT CC 03-161	Gas Well	EMERY	SENE	3	17S-8E
43-015-30553-00-00	ST OF UT FO 02-188	Gas Well	EMERY	NWSW	2	17S-8E
43-015-30554-00-00	ST OF UT BB 04-158	Gas Well	EMERY	NENW	4	17S-8E
43-015-30555-00-00	ST OF UT BB 04-159	Gas Well	EMERY	SWNE	4	17S-8E
43-015-30556-00-00	MALONE 14-131	Gas Well	EMERY	SWNW	14	17S-8E
43-015-30559-00-00	UT FED KK 01-141	Gas Well	EMERY	SESE	1	17S-7E
43-015-30560-00-00	ST OF UT FO 02-189	Gas Well	EMERY	SWNE	2	17S-8E
43-015-30561-00-00	ST OF UT GG 15-184	Gas Well	EMERY	NWSE	15	17S-8E
43-015-30562-00-00	STATE OF UTAH "LL" 31-20	Gas Well	EMERY	NWNW	31	17S-8E
43-015-30566-00-00	ST OF UT "KK" 32-145	Gas Well	EMERY	NESE	32	16S-8E
43-015-30567-00-00	ST OF UT "KK" 32-144	Gas Well	EMERY	SWSW	32	16S-8E
43-015-30568-00-00	ST OF UT "AA" 18-153	Gas Well	EMERY	SESW	18	17S-8E

API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	Twn-Rng
43-015-30589-00-00	ST OF UT "AA" 07-146	Gas Well	EMERY	NESW	7	17S-8E
43-015-30570-00-00	ST OF UT "AA" 18-154	Gas Well	EMERY	NESE	18	17S-8E
43-015-30571-00-00	ST OF UT "AA" 17-156	Gas Well	EMERY	SWSE	17	17S-8E
43-015-30572-00-00	ST OF UT "AA" 18-149	Gas Well	EMERY	SENW	18	17S-8E
43-015-30573-00-00	ST OF UT "MM" 20-192	Gas Well	EMERY	SENW	20	17S-8E
43-015-30574-00-00	ST OF UT "MM" 20-193	Gas Well	EMERY	NENE	20	17S-8E
43-015-30575-00-00	ST OF UT MM 20-194	Gas Well	EMERY	NWSW	20	17S-8E
43-015-30576-00-00	ST OF UT AA 07-147	Gas Well	EMERY	SESE	7	17S-8E
43-015-30577-00-00	ST OF UT BB 08-148	Gas Well	EMERY	NWSW	8	17S-8E
43-015-30578-00-00	ST OF UT AA 18-150	Gas Well	EMERY	NWNE	18	17S-8E
43-015-30579-00-00	ST OF UT NN 19-157	Gas Well	EMERY	NENE	19	17S-8E
43-015-30580-00-00	ST OF UT AA 17-152	Gas Well	EMERY	NENE	17	17S-8E
43-015-30581-00-00	ST OF UT OO 16-190	Gas Well	EMERY	NESW	16	17S-8E
43-015-30582-00-00	ST OF UT PP 16-191	Gas Well	EMERY	NESE	16	17S-8E
43-015-30583-00-00	ST OF UT AA 17-151	Gas Well	EMERY	NENW	17	17S-8E
43-015-30585-00-00	ST OF UT MM 21-195	Gas Well	EMERY	NENW	21	17S-8E
43-015-30586-00-00	ST OF UT GG 21-163	Gas Well	EMERY	NENE	21	17S-8E
43-015-30587-00-00	ZIONS FED 35-137	Gas Well	EMERY	NESE	35	16S-7E
43-015-30589-00-00	UTAH FED 01-205D	Gas Well	EMERY	SENW	1	17S-7E
43-015-30590-00-00	ZIONS FED 02-134	Gas Well	EMERY	NWNW	2	17S-7E
43-015-30591-00-00	UTAH FED 12-197	Gas Well	EMERY	SENE	12	17S-7E
43-015-30592-00-00	ST OF UT QQ 31-201	Gas Well	EMERY	SESW	31	16S-8E
43-015-30593-00-00	ST OF UT AA 17-155	Gas Well	EMERY	SWSW	17	17S-8E
43-015-30601-00-00	UTAH FED 12-199	Gas Well	EMERY	NESE	12	17S-7E
43-015-30602-00-00	UTAH FED 35-196	Gas Well	EMERY	NENW	35	16S-7E
43-015-30603-00-00	UTAH FED 35-136	Gas Well	EMERY	SWNE	35	16S-7E
43-015-30604-00-00	UT FED 12-200D	Gas Well	EMERY	NESE	12	17S-7E
43-015-30605-00-00	UT FED 12-198D	Gas Well	EMERY	SENE	12	17S-7E
43-015-30606-00-00	ST OF UT QQ 31-204D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30607-00-00	ST OF UT QQ 31-203D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30608-00-00	ST OF UT QQ 31-202D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30609-00-00	ST OF UT HH 23-166	Gas Well	EMERY	NENW	23	17S-8E

## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

8/1/2004

**FROM: (Old Operator):**N0210-Chevron USA, Inc  
11111 S Wilcrest  
Houston, TX 77099

Phone: 1-(281) 561-4991

**TO: ( New Operator):**N2615-XTO Energy Inc  
2700 Farmington Ave, Bldg K Suite 1  
Farmington, NM 87401

Phone: 1-(505) 324-1090

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
ST OF UT T 36-10	36	160S	070E	4301530268	11866	State	GW	P
SWD 4	15	170S	080E	4301530490	13366	Fee	WD	A
SWD 5	23	170S	080E	4301530510	13403	Fee	WD	A
ST OF UT U 2-11	02	180S	070E	4301530270	11865	State	GW	P
ST OF UT U 2-48	02	180S	070E	4301530306	12145	State	GW	P
ST OF UT U 2-50	02	180S	070E	4301530308	12147	State	GW	P
PEACOCK 7-64	07	180S	070E	4301530327	12199	Fee	GW	P
P & K PEACOCK 8-62	08	180S	070E	4301530320	12238	Fee	GW	P
PEACOCK TRUST 8-61	08	180S	070E	4301530326	12209	Fee	GW	P
PEACOCK TRUST 8-63	08	180S	070E	4301530328	12205	Fee	GW	P
PEACOCK TRUST 9-60	09	180S	070E	4301530321	12206	Fee	GW	P
D & A JONES 9-59	09	180S	070E	4301530329	12202	Fee	GW	S
UP & L 14-55	14	180S	070E	4301530314	12148	Fee	GW	P
D&D CURTIS 14-54	14	180S	070E	4301530319	12346	Fee	GW	S
SWD 2	14	180S	070E	4301530323	12279	Fee	WD	A
R G NORRIS 14-40	14	180S	070E	4301530324	12334	Fee	GW	P
D & A JONES 15-68	15	180S	070E	4301530318	12200	Fee	GW	S
L & M CURTIS 15-67	15	180S	070E	4301530325	12278	Fee	GW	P
UP & L 23-51	23	180S	070E	4301530315	12208	Fee	GW	P
UP & L 24-57	24	180S	070E	4301530316	12207	Fee	GW	P

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/28/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/28/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/19/20044. Is the new operator registered in the State of Utah: YES Business Number: 5655506-01435. If **NO**, the operator was contacted on:6a. (R649-9-2) Waste Management Plan has been received on: to follow6b. Inspections of LA PA state/fee well sites complete on: being worked

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/28/2004

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 9/30/2004
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/30/2004
3. Bond information entered in RBDMS on: 9/30/2004
4. Fee/State wells attached to bond in RBDMS on: 9/30/2004
5. Injection Projects to new operator in RBDMS on: 9/30/2004
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 9/28/2004

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: 579173

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 104312762
2. The FORMER operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 10/5/2004

**COMMENTS:**

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File SWD 5

☐ Suspense

☒ Other

(Loc.) Sec 23 Twp 17S Rng. 8E

(Return Date) \_\_\_\_\_

SWD 5

(API No.) 43-015-30510

(To-Initials) \_\_\_\_\_

Emergency Pit

1. Date of Phone Call: 3/10/05 Time: 10:30

2. DOGM Employee (name) J. Cordova (☒ Initiated Call) msg. ans. machine  
Talked to:

Name Brenda Waller (☒ Initiated Call) - Phone No. (505) 566-7923  
of (Company/Organization) XTO Energy

3. Topic of Conversation: \_\_\_\_\_

4. Highlights of Conversation: \_\_\_\_\_

3/14/05 Brenda SWD 5 well conv. to disposal well  
but has not commenced inj. They plan to install  
a waterline to the inj. well in the near future & will submit reports.

They also plan to construct the SWD 5 emergency  
pit once the waterline is completed, they will  
notify DOGM when construction begins.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UIC-296.1
2. NAME OF OPERATOR: XTO ENERGY INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 2700 Farmington Ave. Bldg K CITY Farmington STATE NM ZIP 87401		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 101' FSL & 1108' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23 17S 08E		8. WELL NAME and NUMBER: SWD #5
PHONE NUMBER: (505) 324-1090		9. API NUMBER: 4301530510
		10. FIELD AND POOL, OR WILDCAT: BUZZARD BENCH
		COUNTY: EMERY
		STATE: UTAH

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: RETURN WELL TO PRODUCTION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/10/2005			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy Inc. reactivated this well on 9/10/05. This well is a water injection well and has not been active since XTO acquired the well from Chevron Texaco on 8/17/2004. This well injects into the Navajo Sands (perms @ 5994' - 6690'). XTO reactivated in the following manner:

MIRU Halliburton acid truck. Tested lines to 6,000 psig for 10". Pumped 432 BPW down tubing. AIR 6.5 BPM. AIP 923 psig. Max injection pressure 1,123 psig. RDMO acid truck. SWI @ 11:00 a.m., 9/9/05. RWTP on 9/10/2005.

NAME (PLEASE PRINT) HOLLY C. PERKINS

TITLE Regulatory Compliance Tech

SIGNATURE

DATE 9/15/2005

(This space for State use only)

RECEIVED  
SEP 19 2005  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
XTO ENERGY INC.

*Amended*

3. ADDRESS OF OPERATOR:  
2700 Farmington Ave. Bldg K CITY Farmington STATE NM ZIP 87401

PHONE NUMBER:  
(505) 324-1090

5. LEASE DESIGNATION AND SERIAL NUMBER:

UIC-206-1 FEF

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

SWD #5

9. API NUMBER:

43-05-30510

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 101' FSL & 1108' FEL

COUNTY: EMERY

QTR/QTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23 17S 08E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/10/2005	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CLEAN OUT PERFS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well is a water injection well and has not been active since XTO Energy acquired the well from Chevron Texaco on 8/17/2004. XTO performed the following work to clean out perfs & start conversion:

MIRU Halliburton acid truck. Tested lines to 6000 psig for 10 minutes. Pumped 432 BPW down tubing. AIR 6.5 BPM. AIP 923 psig. Max injection pressure 1123 psig. RDMO acid truck. SWI @ 11 am, 9/9/05. XTO Energy Inc. will notify DOGM when they are ready to do a mechanical integrity test on this well in preparation for return to injecting.

NAME (PLEASE PRINT)

HOLLY C. PERKINS

TITLE

REGULATORY COMPLIANCE TECH

SIGNATURE

*Holly C. Perkins*

DATE

9/23/2005

(This space for State use only)

RECEIVED

SEP 28 2005

DIV. OF OIL, GAS & MINING



Incidents/Spills

## Well Inspections

Date Mod 03/20/2003

Inspection Tracking Press/Rest

API Well No. 43-015-30510-00-00

Owner CHEVRON USA INC

County EMERY

Well Name SWD 5

WI Typ Water Disposal

Fclty/Proj NA

Well Status Active Well

Well S-T-R S: 23 T: 17S R: 8E

Directions

Inspect No.	Type	Purpose	Operator at Time of Inspection
ILC00000233	Routine/Periodic	Status Check	CHEVRON USA INC 80210

Violation? ☐ SNC? ☐

Notification Type

Write Violation

Date Inspected 03/19/2003

Date NOV

Date RmdyReq

Date Extension

Date Passed

Failed Items

Fail Code	Status	Description

Comply# Incident# Inspector Lisha Cordova



SWD 5 EAST/SE VIEW  
(3-19-2003)



SWD 5 NE VIEW  
(3-19-2003)



SWD 5 NORTH VIEW  
(3-19-2003)



SWD 5 NW VIEW  
(3-19-2003)



SWD 5 SOUTH VIEW  
(3-19-2003)





SWD 5 WEST VIEW  
(3-19-2003)





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 7, 2010

XTO Energy Inc  
382 CR 3100  
Aztec, NM 87410

175 8E 23

SUBJECT: Pressure Test for Mechanical Integrity, SWD 5 (API# 43-015-30510) Well,  
Emery County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following well now requires a current test:

SWD 5                      43-015-30510

Please make arrangements and ready wells for testing during the week of August 30th, 2010, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.

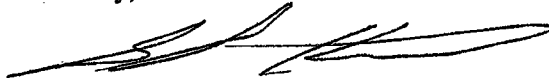


Page 2  
June 7, 2010  
XTO Energy Inc

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bart Kettle', with a long horizontal stroke extending to the right.

Bart Kettle  
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager  
Well File



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
<b>1. TYPE OF WELL</b> Water Disposal Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>8. WELL NAME and NUMBER:</b> SWD 5
<b>PHONE NUMBER:</b> 505 333-3159 Ext		<b>9. API NUMBER:</b> 43015305100000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0101 FSL 1108 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 23 Township: 17.0S Range: 08.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> BUZZARD BENCH
		<b>COUNTY:</b> EMERY
		<b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text" value="MIT"/>
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 8/5/2010			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

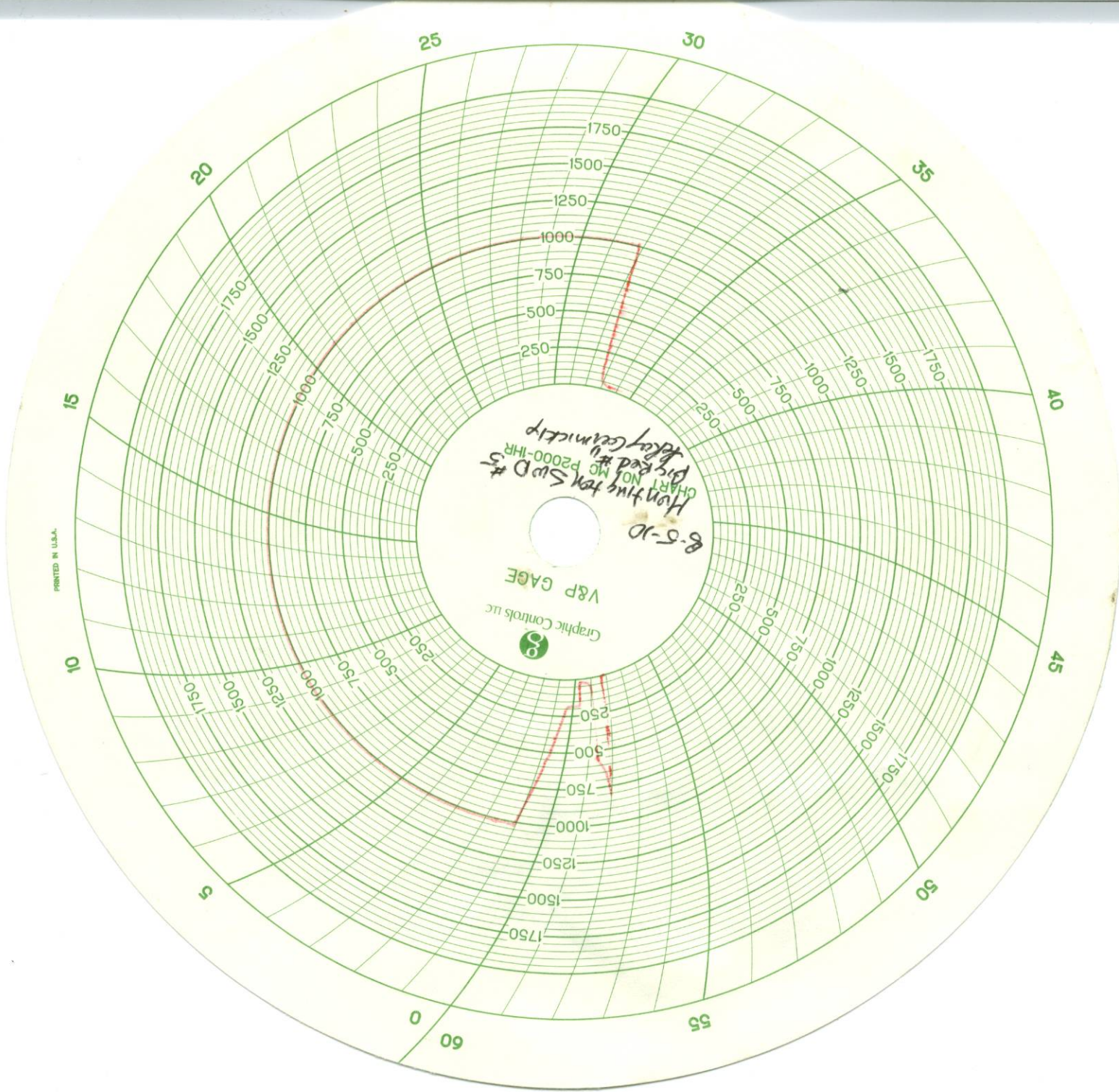
**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 XTO Energy Inc. performed a MIT on this well on 8/5/2010. The test was to 1,000 psi for 34 minutes. Please see the attached MIT chart.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**

**Date:** August 11, 2010

**By:**

<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/9/2010



## INJECTION WELL - PRESSURE TEST

Well Name: <u>Huntington SWD #5</u>	API Number: <u>43-015-30510</u>
Qtr/Qtr: <u>SE/SE</u> Section: <u>23</u>	Township: <u>17S</u> Range: <u>8E</u>
Company Name: <u>XTO Energy</u>	
Lease: State _____ Fee <u>X</u>	Federal _____ Indian _____
Inspector: <u>Mark Z Jones</u>	Date: <u>8/5/2010</u>

## Initial Conditions:

Tubing - Rate: 4 Pressure: 0 psiCasing/Tubing Annulus - Pressure: 0 psi

## Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1000</u>	<u>0</u>
5	_____	_____
10	_____	_____
15	<u>1000</u>	<u>0</u>
20	_____	_____
25	_____	_____
30	<u>1000</u>	<u>0</u>

Results: Pass/Fail

## Conditions After Test:

Tubing Pressure: 0 psiCasing/Tubing Annulus Pressure: 0 psi

COMMENTS: \_\_\_\_\_

 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Dal Gray (XTO)  
 Operator Representative

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		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Water Disposal Well		8. WELL NAME and NUMBER: SWD 5
2. NAME OF OPERATOR: XTO ENERGY INC		9. API NUMBER: 43015305100000
3. ADDRESS OF OPERATOR: PO Box 6501, Englewood, CO, 80155	PHONE NUMBER: 303 397-3727 Ext	9. FIELD and POOL or WILDCAT: BUZZARD BENCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0101 FSL 1108 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 23 Township: 17.0S Range: 08.0E Meridian: S		COUNTY: EMERY
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="5-yr MIT"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/2/2015			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy Inc. performed a 5-year MIT on this well per the following:  
 7/2/2015: MIRU B&C quick test. PT line to 1,550 psig, gd tst. PT csg  
 1,000 psig for 20 min. Tstd gd. Witness by Bart Kettle w/DOGM. RDMO  
 B&C quick test. Please see the attached MIT chart.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 July 14, 2015

NAME (PLEASE PRINT) Barbara Nicol	PHONE NUMBER 303-397-3736	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 7/9/2015



